



*Changes for the Better*

AIR CONDITIONING SYSTEMS

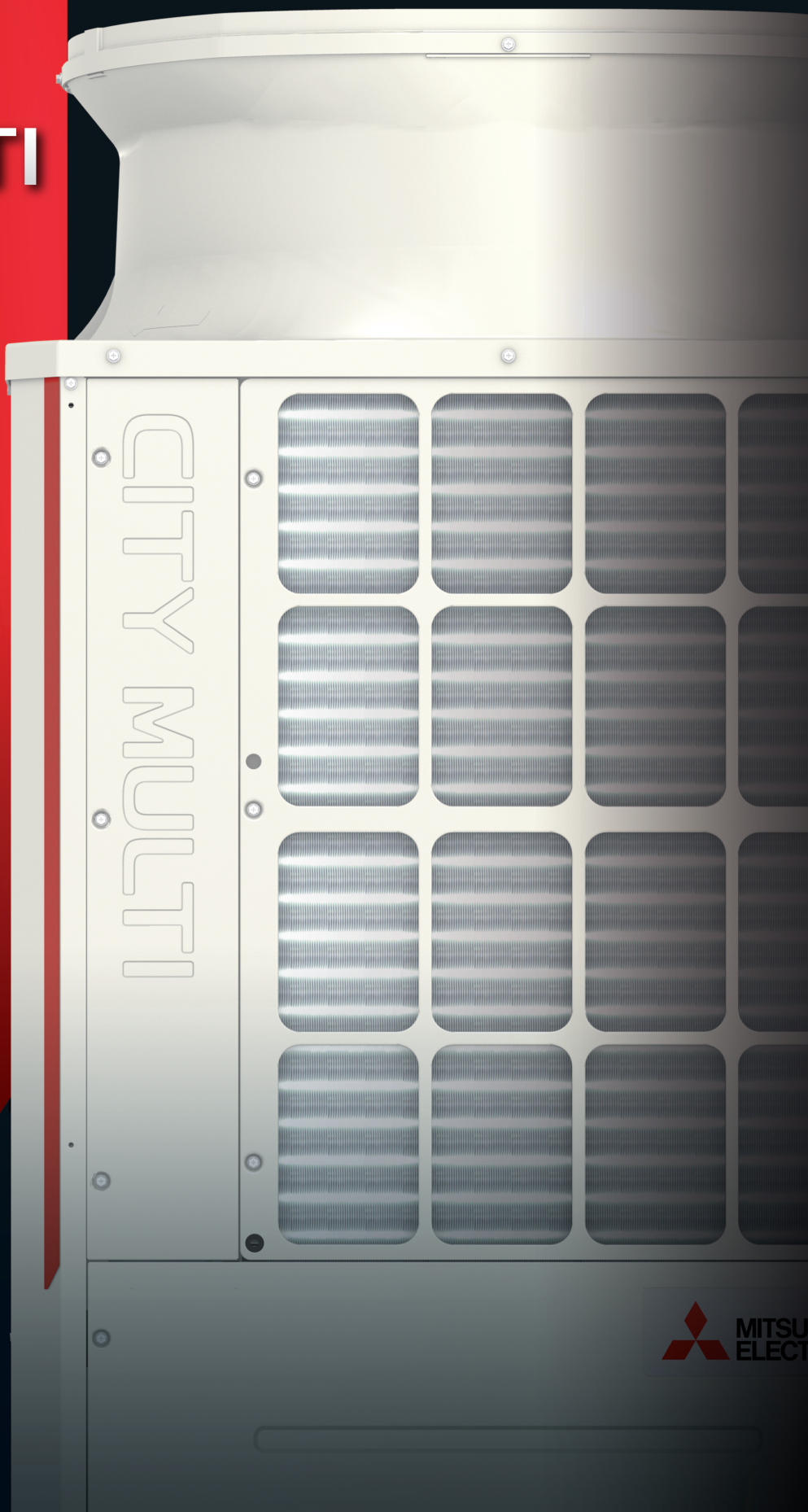
for a greener tomorrow



# CITY MULTI

PURY YNW-A Series

PUHY YNW-A Series



# Mitsubishi Electric is launching New Series.



## Next Stage



## To the next stage of air conditioning

Introducing a new series of air conditioners with improved basic functions and advanced compressor, well streamlined fan that meet energy-saving requirements.

Mitsubishi Electric continues to improve air conditioning quality and provide its customers with next-stage solutions.



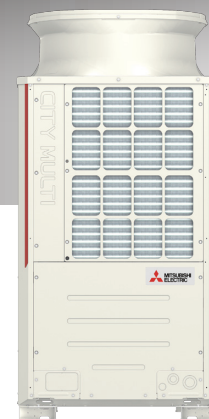
Energy Saving

Flexible Noise Setting

New Design

New BC controller

# New CITY MULTI



The new structural design has a 4-face air induction design and improved core components, such as compressor and fan, significantly improving energy-saving performance.

## Energy Saving

Various key components have been equipped, improving energy-saving performance and meeting customers' requirements.

## New Design

New modern design blends in well with most building architectures.

## Flexible Noise Setting

All models in the series are equipped with low-noise operating mode as a standard feature. Choose from five different patterns for the optimum setting to meet the low-noise requirements.

## New BC controller

The BC controllers for R2 have been remodeled. Up to 11 sub-BC controllers can be connected to the main BC controller.

## R2 (Heat Recovery) Series

### Simultaneous Cooling and Heating

R2 series	PURY-P YNW-A (-BS)	PURY-EP YNW-A (-BS)
	PURY-P YSNW-A (-BS)	PURY-EP YSNW-A (-BS)

## Y (Heat Pump) Series

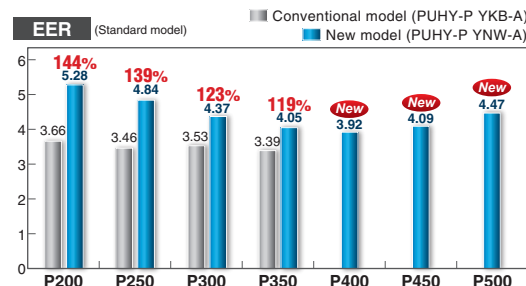
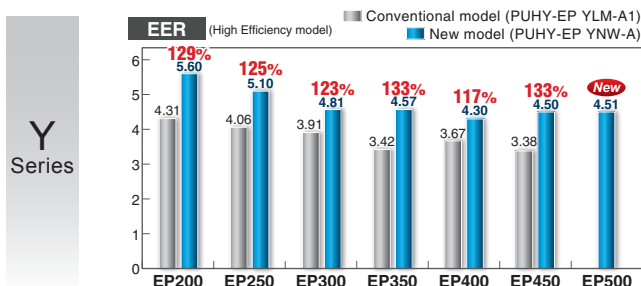
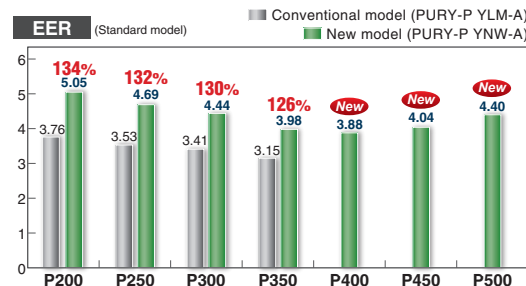
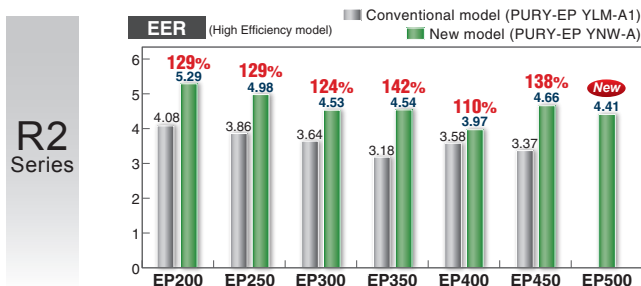
### Cooling or Heating

Y series	PUHY-P YNW-A (-BS)	PUHY-EP YNW-A (-BS)
	PUHY-P YSNW-A (-BS)	PUHY-EP YSNW-A (-BS)

## Energy Saving

Compared to the existing models, the all single modules in YNW Series have improved EER.

EER of the 14HP model (PURY-EP350YNW-A) is higher by about 42%. All these models ensure high energy saving.



\*Comparison under the nominal condition.

## Flexible Noise Setting

**New**



The low-noise mode, which conventionally only had one pattern, has been increased to four patterns so that a mode can be selected from a total of five patterns, including the rated pattern. The low-noise mode has four patterns 85%, 70%, 60% and 50% in respect to the fan speed. This can be set with the outdoor unit's DIP switch. The pattern can be selected according to the customer's requests when low-noise operation is required.

\*In the low noise mode, the capacity will reduce.



## New Design

**New**



Conventional model (YLM)

**New**



New model (YNW)

\* All product images are standard type.

To realize high efficiency, the structure was changed by using a four-sided heat exchanger.

The appearance is more sophisticated which can enhance the design of building.

## Comparison of modules



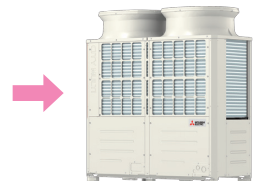
**S**



**L**



**XL**



## Capacity increased up to 44HP

### New 16~20HP single module available



Newly available single module

Increased capacities up to 44HP

Use of module one size smaller than conventional unit

Single modules of up to 20HP have been added to R2-Series.

Single modules are smaller, with L modules replacing the EP400 and P450 modules, reducing installation space by approximately 29%.

### R2-Series

#### P Single

	8HP	10HP	12HP	14HP	16HP	18HP	20HP
	P200	P250	P300	P350	P400	P450	P500
YLM-A	S	S	L	L	—	—	—
<b>New YNW</b>	S	S	S	L	L	L	XL

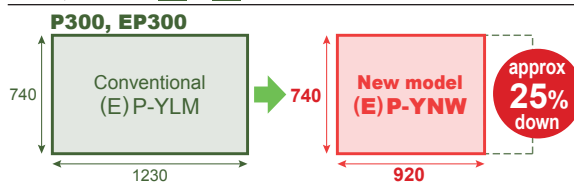
#### EP Single

	8HP	10HP	12HP	14HP	16HP	18HP	20HP
	EP200	EP250	EP300	EP350	EP400	EP450	EP500
YLM-A1	S	S	L	L	XL	XL	—
<b>New YNW</b>	S	S	S	L	L	L	XL

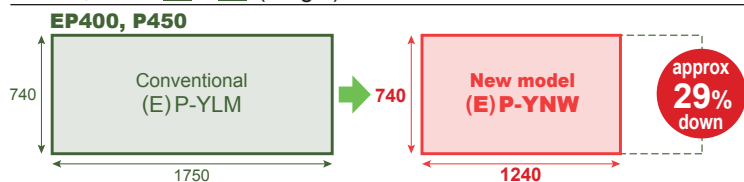
#### P Combination

	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP	34HP	36HP	38HP	40HP	42HP	44HP
	P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800	P850	P900	P950	P1000	P1050	P1100
YLM-A	—	—	—	—	S+S	S+S	S+S	S+L	L+L	L+L	L+L	L+L	L+L	L+XL	XL+XL	—	—	—	—
<b>New YNW</b>	—	—	—	—	S+S	S+S	S+S	S+S	S+S	S+L	L+L	L+L	L+L	L+L	L+L	L+XL	XL+XL	XL+XL	XL+XL

P300, EP300 **L → S**



EP400, P450 **XL → L** (Single)



## New BC controller

**New**

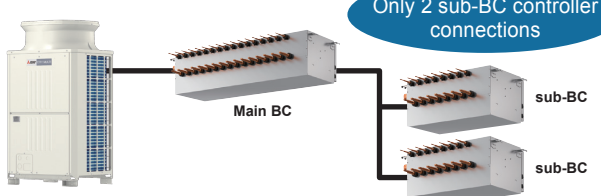
### Sub-BC controller connections increased



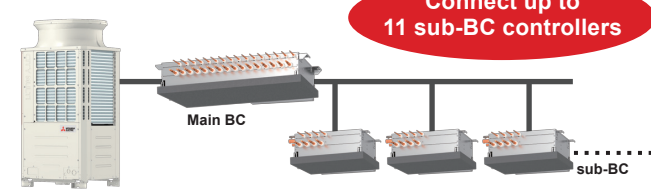
Only two sub-BC controllers could be connected to a main BC controller in previous models. Up to 11 sub-BC controllers can now be connected to the new BC controller, allowing for more flexibility in system design.

The line-branching method enables the creation of system designs that use less refrigerant.

#### Conventional model



#### New model



# Key Components

## New 1 Compressor with centrifugal force canceling mechanism



The compressor, known as the heart of the air conditioner, has been newly developed. A new centrifugal force canceling mechanism and a new multi-port mechanism have been developed. In addition, we have mounted a high-efficiency motor. The synergetic effect of these new technologies increases the compressor performance and efficiency, and also helps to improve the performance of the outdoor unit.

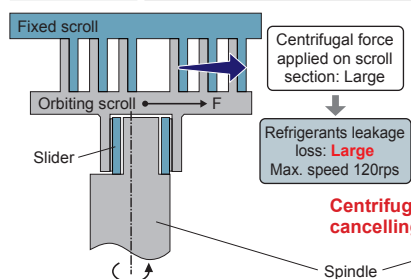
### Centrifugal force canceling mechanism (8 to 14HP)

The structure of the scroll compressor causes a centrifugal force during operation. Conventionally, that centrifugal force is applied onto the scroll section. This causes refrigerant to leak, and restricts the increase in rotational speed to a maximum of 120rps. With the new compressor, a new structure (centrifugal force canceling mechanism) has been mounted to suppress the centrifugal force. This mechanism successfully suppresses the centrifugal force generated at the scroll section, reduces refrigerant leakage losses, and increases the compressor efficiency. The maximum rotational speed has been increased from the conventional 120rps to 140rps.

This new mechanism also speeds up the start of operation, and enables operations such as preheat defrost operation and the smooth auto-shift startup mode.

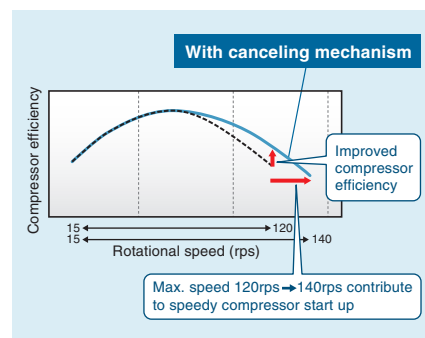
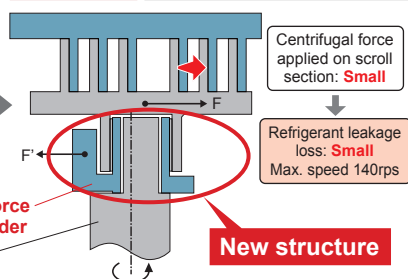
#### Conventional mechanism

**Large loss** Vortex pressing load is high.



#### Centrifugal force canceling mechanism

**Small loss** Vortex pressing load is low.



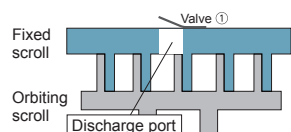
### Multi-port mechanism

With the scroll compressor, the distance of the compression process in the scroll is usually fixed, so over-compression occurs during low loads and low rotation.

The new compressor is equipped two sub-ports in addition to the conventional discharge port to reduce this over-compression loss during low loads. In operation conditions having a low compression rate, the distance in the compression process is kept short by that successfully avoiding unnecessary compression, and contributing to efficient partial load operation.

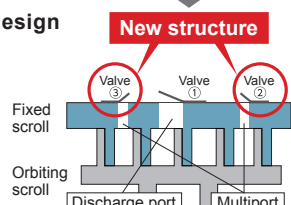
#### Conventional structure

Operation pattern		Fixed scroll	Orbiting scroll
Main port	Valve ①		
Partial load	Open	Open	Open



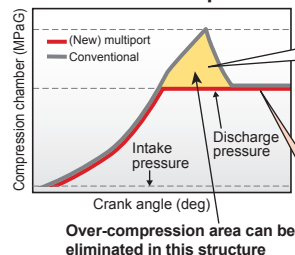
#### New structure with multi-port design

Operation pattern		Fixed scroll	Orbiting scroll
Main port	Valve ①		
Partial load	Open	Open	Open
Sub-port	Valve ②	Open	Closed
	Valve ③	Open	Closed



The sub-port is opened during partial load operation to discharge the over-compressed gas.

#### Reduced over-compression loss (multi-port)

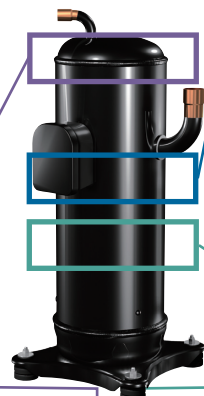


#### Conventional model

Conventionally, gas refrigerant is compressed to a set pressure, and then lowered to the target discharge pressure at which it is discharged. This causes drive losses from over-compression.

#### Multiport

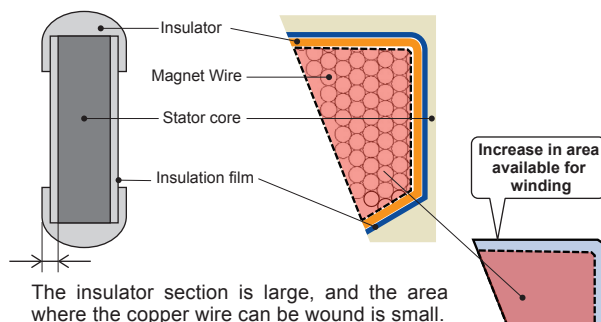
When the target discharge pressure is reached, the multiport opens, and the gas refrigerant is discharged. This reduces drive losses caused by over-compression.



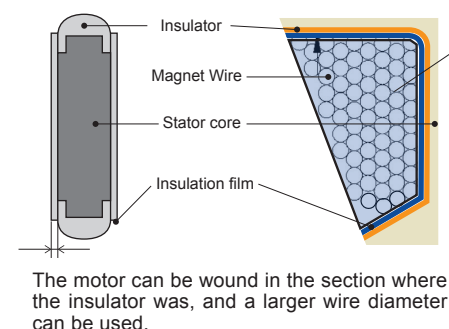
### Improved high-efficiency motor

The insulator section that traditionally created a dead space is eliminated by insulating the motor's stator film. Since winding can be set in that section, the winding area can be increased by approx. 9%. The wire diameter has also been increased by two ranks, so the resistance between terminals is reduced, and the insulation distance is shorter. This improves the motor's operation performance and contributes to high-efficiency operation of the compressor.

#### Conventional model (YLM)



#### New model (YNW)





**New**

## 2 Four-sided air intake structure

R2 Series  
EP

R2 Series  
P

Y Series  
EP

Y Series  
P

On the conventional models, a U-shaped heat exchanger was installed over the rear surface. In the new model, the four-sided heat exchanger has been mounted on the upper-part of the module which is near the fan. This allows air to be taken in efficiently, and increases the heat exchanger's efficiency.

Conventional model (YLM)



The three-surface suction and the vertically long heat exchanger attenuate the suction rate at sections distanced from the fan.

New model (YNW)



Efficient air suction is achieved by placing the heat exchangers on the upper part. The multiplier effect created by increasing the number of suction surfaces from three surfaces to four surfaces greatly improves the operation efficiency.

**New**

## 3 Provided with well streamlined fan

R2 Series  
EP

R2 Series  
P

Y Series  
EP

Y Series  
P

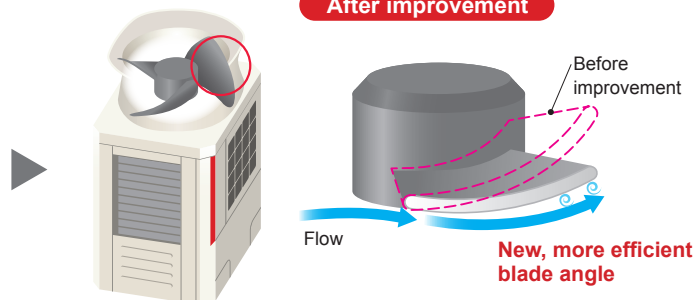
A new fan which is suitable for 4-face suction has been developed. A newly designed winglet is provided on the periphery of each blade to operate efficiency.

In addition, the blade angle is determined properly according to the flows on the inner and outer peripheries of the blade to optimize the blowing efficiency.

Before improvement



After improvement



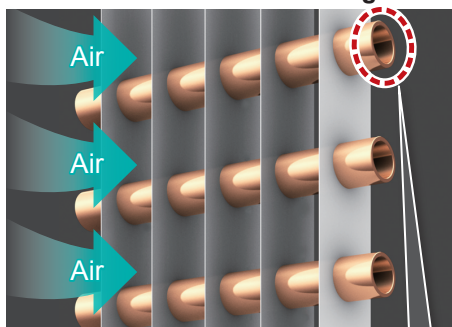
## 4 Flat-tube heat exchanger

R2 Series  
EP

Y Series  
EP

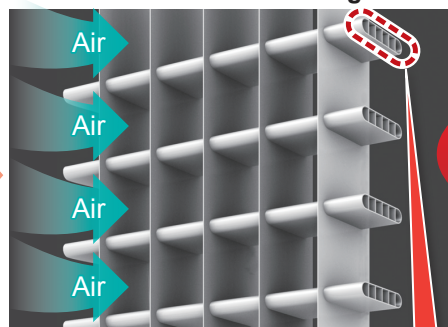
In addition to the round-tube heat exchanger models, flat-tube heat exchanger models are available. The use of flat tubes increases the number of piping stages while maintaining the same size for heat exchanger. The inside of the tube is divided into thin compartments, which increases the area of contact between refrigerant and air, thereby increasing heat-exchange effectiveness and significantly improving energy-saving performance. The flat-tube heat exchanger improves heat-exchange effectiveness by approximately 30% compared to round-tube heat exchangers.

Round-tube heat exchanger



Round-tube shape

Flat-tube heat exchanger



Flat-tube shape

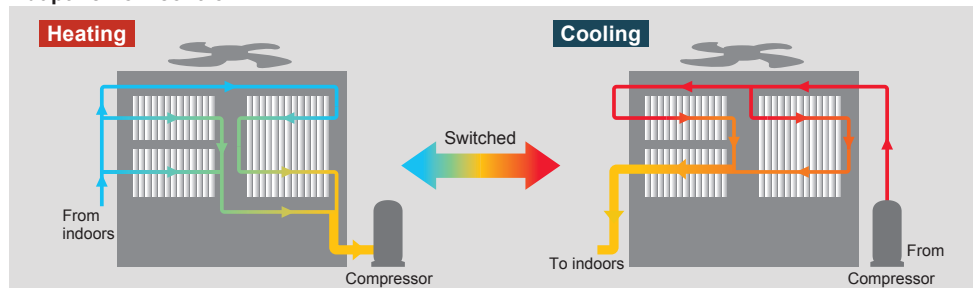
Approximately 30%  
increase in heat-exchange  
efficiency

(Illustration)

## New 5 Adaptive flow control (~18HP)

Changed to a refrigerant circuit flow for both heating and cooling.

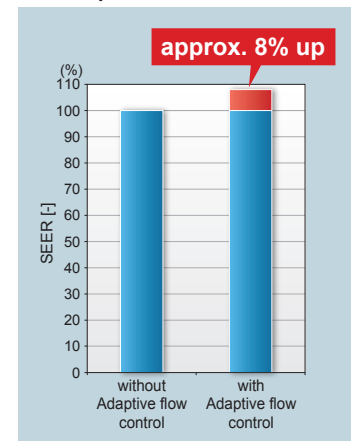
### Adaptive flow control



- During cooling, a serial flow path (flow through two of the heat exchangers split into three, and then through the last heat exchanger) is used. With fewer paths, the refrigerant flow rate is increased and the heat conductivity performance is improved. In addition, the drop in heat exchanger capacity for per path prevents the refrigerant stagnation and improves the condensing performance of the heat exchanger during cooling.
- During heating, a parallel flow path (flow refrigerant simultaneously through all heat exchangers split into three) is used. By flowing the refrigerant to all paths at the heat exchanger inlets (by increasing the number of paths compared to cooling), pressure loss in the heat exchanger is reduced, and the evaporator performance is improved.

\* Increase in evaporator performance is compared to using the original number of cooling paths.

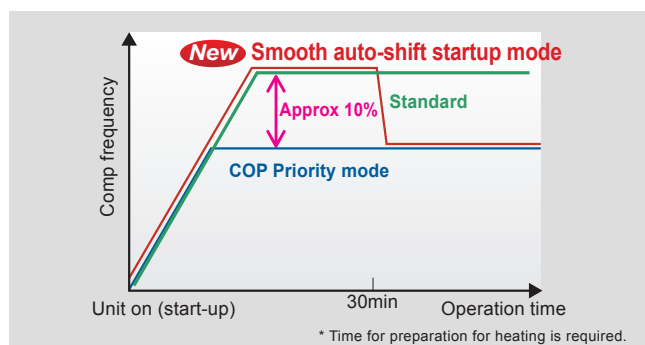
### Comparison of EP300 (Y-Series) SEER (cooling) with and without variable path



# Key Functions

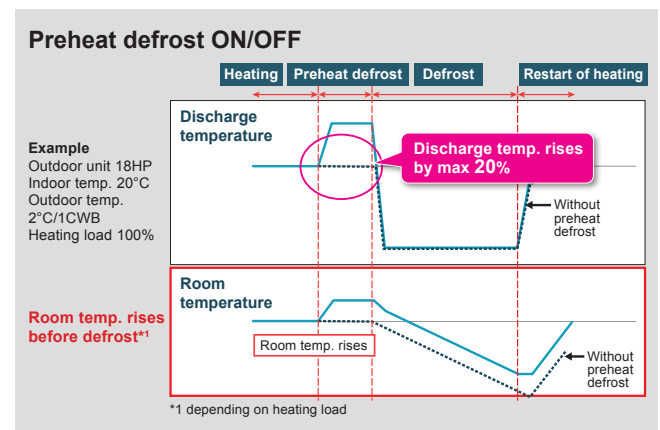
## New 1 Smooth auto-shift startup mode

Smooth auto-shift startup mode, a new operation mode on the outdoor unit, can now be selected in addition to the conventional COP Priority and Capacity Priority modes. In order to heat the room faster, Capacity Priority mode runs for 30 minutes when heating operation starts. The unit then switches to COP Priority mode to increase energy-saving efficiency. This enables both improved comfort and energy savings.



## New 2 Preheat defrost operation

The new outdoor unit is equipped with a preheat defrost operation that raises the discharge temperature of the air before beginning defrost operation. This contributes to raising the room temperature before the start of defrost operation and prevents room occupants experiencing a chilling sensation.



## 3 Energy-efficient evaporation control

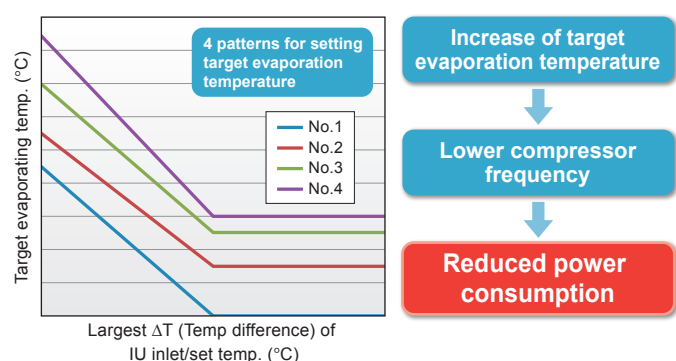
Since the evaporation temperature is kept constant regardless of the air-conditioning load in normal operation mode, energy loss could occur at times of low air-conditioning load. The new models are equipped with a function for selecting the target evaporation temperature\*1 according to the air-conditioning load.

The compressor frequency is reduced according to conditions in the room to control the evaporation temperature.

This can curb excessive power consumption and realize energy savings\*2.

\*1 To change the evaporation temperature setting, it is necessary to change the setting of the DIP switch on the outdoor unit.

\*2 When the difference between the indoor unit air-intake temperature and the actual temperature setting exceeds 1°C, the air conditioner returns to normal mode.

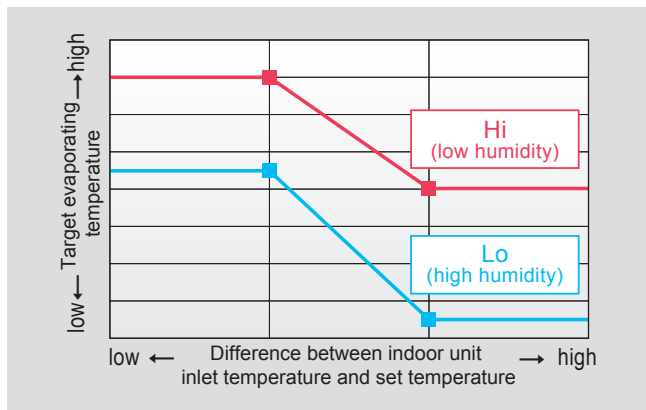




## 4 High sensible heat operation R2 Series EP P Y Series EP P

The evaporating temperature is controlled according to room temperature and humidity, and refrigerant pressure.

### Image of evaporating temperature control during high sensible heat operation in full cooling mode



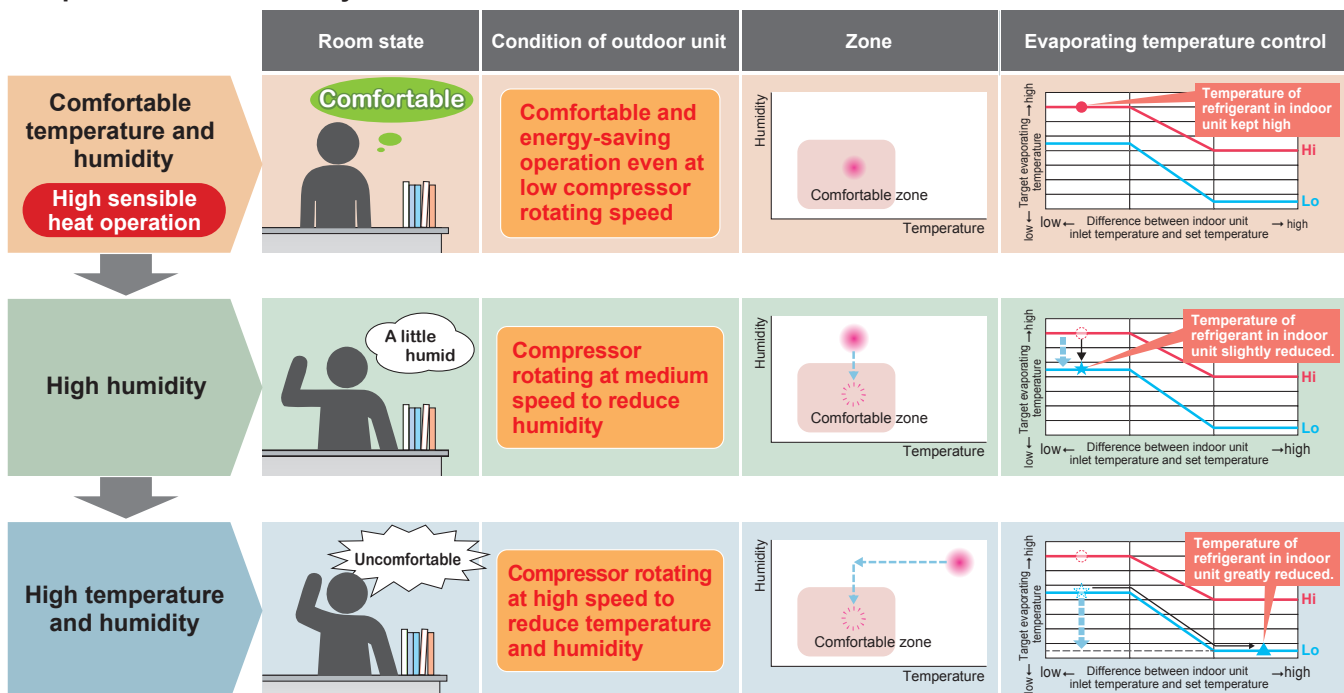
With high sensible heat operation mode activated, air conditioners consume less energy,<sup>\*1</sup> thereby realizing cost savings.

If a locally procured humidity sensor is installed, the evaporating temperature of the outdoor unit can be controlled optimally as shown below according to the difference between the indoor unit inlet temperature and set temperature.

A wide range of temperature settings are available, from a low evaporating temperature close to the temperature for normal operation to a high evaporating temperature to realize energy savings.

<sup>\*1</sup> Unlike in evaporating temperature control mode, once the air conditioners are set in high sensible heat operation mode, they are kept running at a reduced evaporating temperature.

### Temperature and humidity conditions



## New 5 Maintenance data retrieval via USB R2 Series EP P Y Series EP P

Operation data was retrieved from conventional models using the maintenance tool. On the new model, the data can be retrieved quickly via USB<sup>\*1</sup>. It is unnecessary to carry the personal computer in which the maintenance tool has been installed, reducing field operation time and improving convenience. Software can be rewritten via USB, while data for up to 4 days and the 5 minutes after an error has occurred can be stored in the the USB memory device<sup>\*2</sup>.

<sup>\*1</sup> In the case of OC-IC maximum configuration

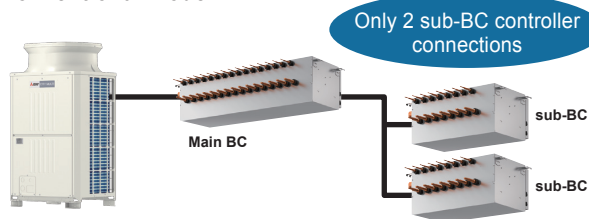
<sup>\*2</sup> USB memory devices conforming to USB2.0 can be used.

# New BC Controller

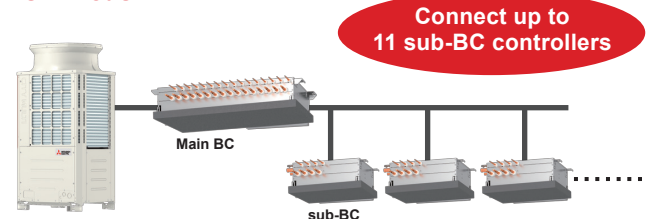
## 1 Sub-BC controller connections increased

Only two sub-BC controllers could be connected to a main BC controller in previous models. Up to 11 sub-BC controllers can now be connected to the new BC controller, allowing for more flexibility in system design. The line-branching method enables the creation of system designs that use less refrigerant.

Conventional model

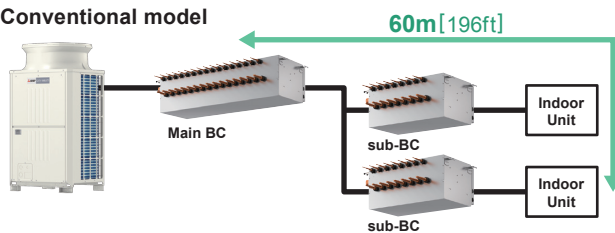


New model

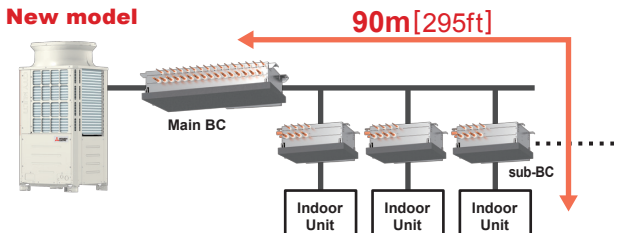


## 2 Greater flexibility in refrigerant piping design

Conventional model



New model



The piping length from the main BC controller to indoor units has been increased from 60m[196ft] to 90m[295ft], providing greater flexibility in piping design.

\*Sub-BC controllers should be used when piping length is 60m[196ft.] or more.

## 3 Main BC controller with increased connection capacity

The connection capacity of the main BC controller has been increased compared to previous controllers, allowing system designs with fewer units. The KA type, which can be connected to units up to 44 HP, has been added to the product lineup to handle outdoor units with increased capacities.

Conventional model

Type	Outdoor unit capacity
G	~14HP
GA	~26HP
HA	~36HP

Type	Total indoor unit capacity
GB/HB(sub)	~14HP
Sub-BC(Total)	~18HP

New model

Type	Outdoor unit capacity
J	~14HP
JA	~36HP
<b>New</b> KA	~44HP

Type	Total indoor unit capacity
KB(sub)	~14HP
Sub-BC(Total)	No limits*

\* Depending on the outdoor unit HP

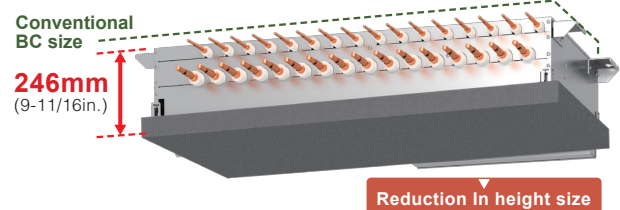
The JA type can handle up to the conventional GA and HA ranges.

The KA type, which can be connected to units up to 44 HP, has been added to the product lineup to handle outdoor units with increased capacities.

## 4 Reduced height

With an average lower height of 40.5mm compared to previous sub-BC controllers, the new design can be installed in ceilings with limited space.

\* Servicing space is required.

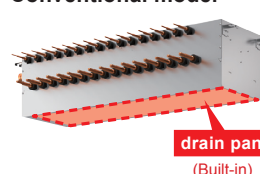


## 5 Improved accessibility to lower surface and serviceability

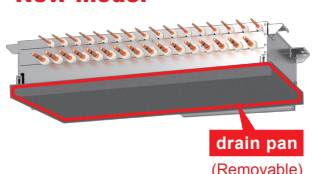
Previously, the drain pan on conventional models was built into the bottom and could not be removed. The drain pan of the new model is installed on the lower surface like a cover, making it easily removable for service from below. Serviceability is therefore improved compared to conventional units, which need to be serviced from the side.

\* Service space is required.

Conventional model



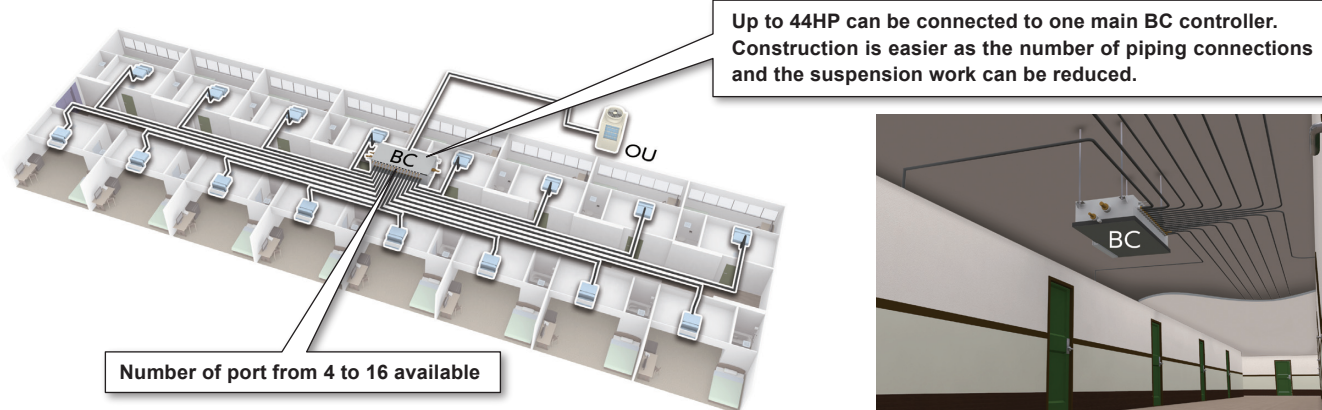
New model





## BC controller design can be selected from various patterns depending on use.

### (1) Pattern using multi-branch main BC controller

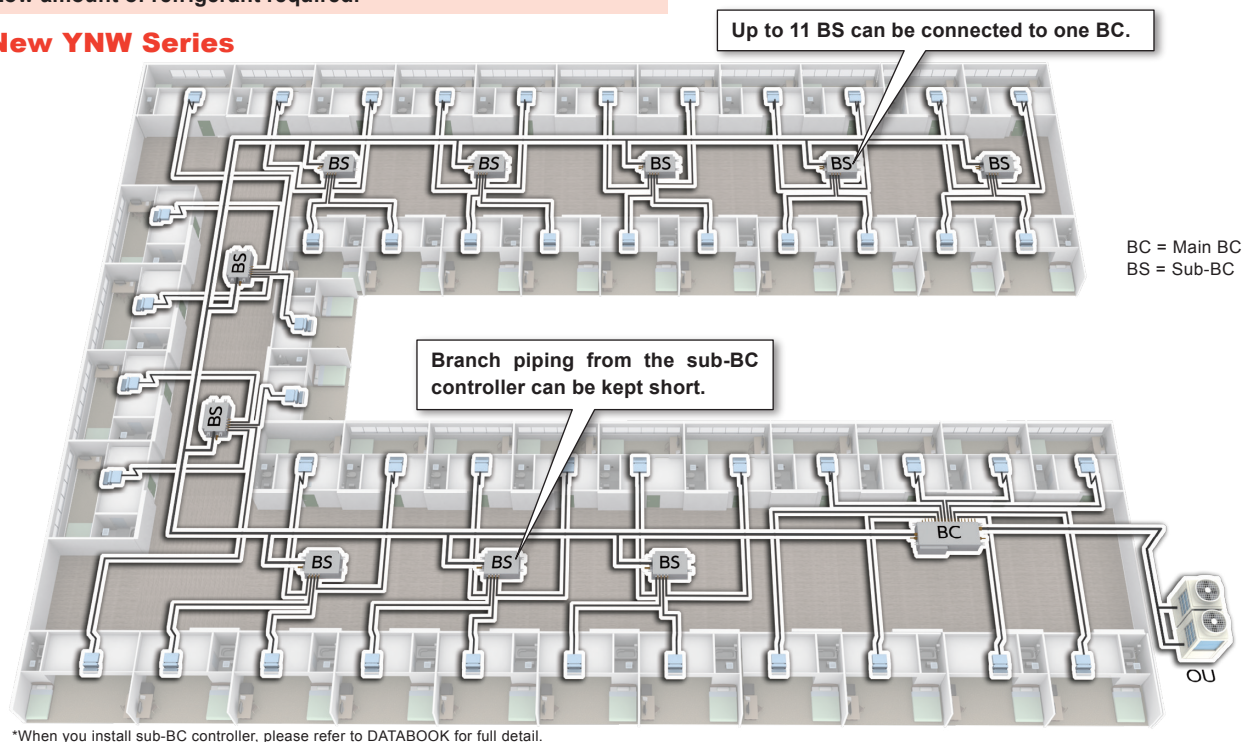


### (2) The line-branching method with a main BC controller and sub-BC controllers **New**

The number of sub-BC controllers that can be connected has been increased from 2 to 11, and sub-BC controllers can be now installed closer to the indoor units, thus reducing both the total branch length compared to conventional models and the amount of refrigerant used.

- Low number of piping connections, even across many rooms.
- Low amount of refrigerant required.

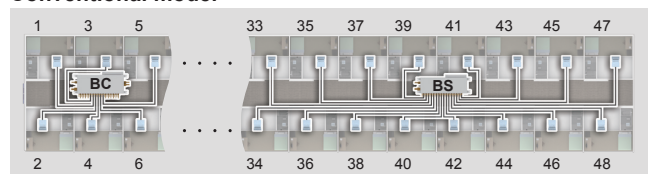
#### New YNW Series



\*When you install sub-BC controller, please refer to DATABOOK for full detail.

### Comparison of piping design for 48 rooms

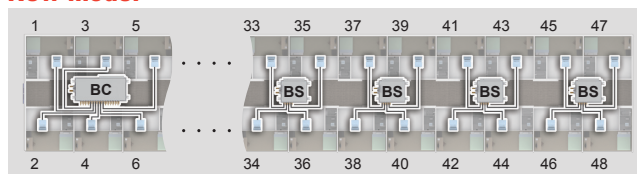
#### Conventional model



Branch piping from sub-BC controller is long

\*The 16 branch BC controller is an older model, and is not possible in this design.

#### New model



The sub-BC controller can be installed near the indoor units, so the branch piping can be greatly reduced. This also reduces the length of system piping, enabling using less refrigerant design.

**Overall branch piping length reduced**







**Refrigerate amount reduced by 20%\***

\* Outdoor unit: 36 HP  
\* Indoor units: P25 × 48 units  
\* BC controllers: Existing HA + HB (16-branch) × 2 units  
New JA + KB (4-branch) × 10 units

# Line up of Outdoor Units

## R2 Series

\*The circled numbers in the table indicate the horse power, and the combination of S, L, and XL modules.

System Type		Air Cooled Heat Pump																	
Model name		R2 Series PURY-P YNW-A(-BS)			R2 Series PURY-P YSNW-A(-BS)			R2 Series <span>High efficiency</span> PURY-EP YNW-A(-BS)			R2 Series <span>High efficiency</span> PURY-EP YSNW-A(-BS)								
Model		 size <span>S</span>			 size <span>L</span>			 size <span>XL</span>			 size <span>S</span>			 size <span>L</span>			 size <span>XL</span>		
HP	modules	S	L	XL	S	L	XL	S	L	XL	S	L	XL						
8HP	P200	8						8											
10HP	P250	10						10											
12HP	P300	12						12											
14HP	P350		14						14										
16HP	P400		16		8	8			16		8	8							
18HP	P450		18		8	10			18		8	10							
20HP	P500			20	10	10				20	10	10							
22HP	P550				10	12					10	12							
24HP	P600				12	12					12	12							
26HP	P650				12	14					12	14							
28HP	P700					14	14					14	14						
30HP	P750					14	16					14	16						
32HP	P800					16	16					16	16						
34HP	P850					16	18					16	18						
36HP	P900					18	18					18	18						
38HP	P950					18	20					18	20						
40HP	P1000						20	20					20	20					
42HP	P1050						20	22*					20	22*					
44HP	P1100						22	22*					22	22*					

\*22HP (P550) can be used only in combination with others.

### System Pipe Lengths [P200-P1100 (R2 Series)]

Refrigerant Piping Lengths	Maximum meters [Feet]	Vertical differentials between units	Maximum meters [Feet]
Total piping length		Indoor/outdoor (outdoor higher) ..... 50 [164]*3	
P200-P300 .....	550 [1,804]	Indoor/outdoor (outdoor lower) ..... 40 [131]*3	
P350-P550 (single module) .....	600 [1,968]	Indoor/BC controller (single/main) ... 15 [49]*4	
P400-P600 .....	750 [2,460]	*Maximum length between single/main BC controller and indoor is dependent upon the vertical differential between the single/main BC controller and the indoor unit.	
P650 .....	800 [2,624]	Indoor/indoor ..... 30 [98]*2*5	
P700-P1,100 .....	1,000 [3,280]	Main BC Controller/Sub-BC Controller ... 15 [49]	
Maximum allowable length .....	165 (190 equivalent) [541(623)]		
Maximum length between outdoor and single/main BC controller .....	110 [360]		
*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller.			
Maximum length between single/main BC controller and indoor .....			
BC controller and indoor ..... 40-90 [131-295]			
and sub-BC controller*1			

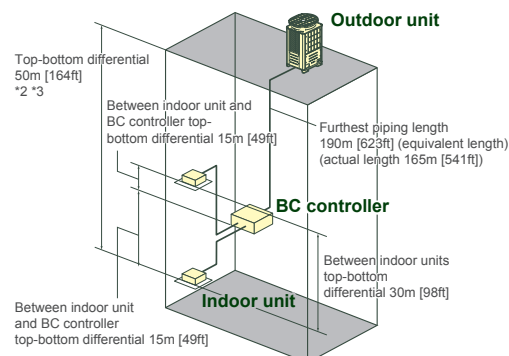
\*1 When you install a sub-BC controller, please refer to DATABOOK for full details.

\*2 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].

\*3 Depending on the model and installation conditions, top-bottom differential 90m [295ft] (o/u above) and 60m [196ft] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor.

\*4 Distance of Indoor sized P200, P250 from BC must be less than 10m [32ft], if any.













\*5 Distance of Indoor sized P200, P250 from BC must be less than 20m [65ft], if any.





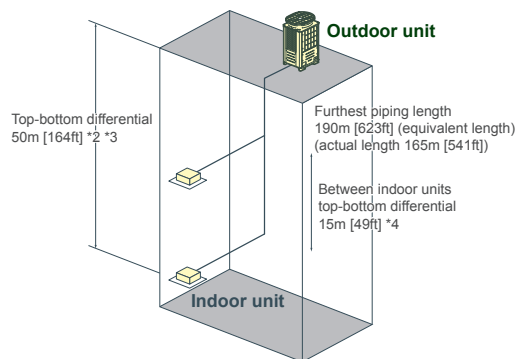
# Y Series

\*The circled numbers in the table indicate the horse power, and the combination of S, L, and XL modules.

System Type		Air Cooled Heat Pump											
Model name		Y Series PUHY-P YNW-A(-BS)			Y Series PUHY-P YSNW-A(-BS)			Y Series <sup>High efficiency</sup> PUHY-EP YNW-A(-BS)			Y Series <sup>High efficiency</sup> PUHY-EP YSNW-A(-BS)		
Model		 size <b>S</b>  size <b>L</b>  size <b>XL</b>			 size <b>S</b>  size <b>L</b>  size <b>XL</b>			 size <b>S</b>  size <b>L</b>  size <b>XL</b>			 size <b>S</b>  size <b>L</b>  size <b>XL</b>		
HP	modules	S	L	XL	S	L	XL	S	L	XL	S	L	XL
4.5HP	P112												
5HP	P125												
6HP	P140												
8HP	P200	8						8					
10HP	P250	10						10					
12HP	P300	12						12					
14HP	P350		14						14				
16HP	P400		16		8 8				16		8 8		
18HP	P450		18		8 10				18		8 10		
20HP	P500			20	10 10					20	10 10		
22HP	P550				10 12						10 12		
24HP	P600				12 12						12 12		
26HP	P650				10	16					10	16	
28HP	P700					14 14						14 14	
30HP	P750					14 16						14 16	
32HP	P800					14 18						14 18	
34HP	P850					16 18						16 18	
36HP	P900					18 18						18 18	
38HP	P950				10	14 14					10	14 14	
40HP	P1000				10	14 16					10	14 16	
42HP	P1050				10	16 16					10	16 16	
44HP	P1100					14 14 16						14 14 16	
46HP	P1150					14 16 16						14 16 16	
48HP	P1200					16 16 16						16 16 16	
50HP	P1250					16 16 18						16 16 18	
52HP	P1300					16 18 18						16 18 18	
54HP	P1350					18 18 18						18 18 18	

## System Pipe Lengths [P200–P1350 (Y Series)]

Refrigerant Piping Lengths	Maximum meters [Feet]	Vertical differentials between units	Maximum meters [Feet]
Total length .....	1,000 [3,280]	Indoor/outdoor (outdoor higher) .....	50 [164]*2
Maximum allowable length .....	165 (190 equivalent)	Indoor/outdoor (outdoor lower) .....	40 [131]*3
	[541(623)]	Indoor/indoor .....	15 [49]*4
Farthest indoor from first branch .....	40 [131]*1		



\*1 90m [295ft] is available. When the piping length exceeds 40m [131ft], use one size larger liquid pipe starting with the section of piping where 40m [131ft] is exceeded and all piping after that point.

\*2 90m [295ft] is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

\*3 60m [196ft] is available depending on the model and installation conditions. For more detailed information, contact your local distributor.

\*4 30m [98ft] is available. If the height difference between indoor units exceeds 15m [49ft] (but does not exceed 30m [98ft]), use one size larger pipes for indoor unit liquid pipes.



# OUTDOOR UNIT R2 Series

## PURY-P YNW-A(-BS)



### Specifications

Model			PURY-P200YNW-A (-BS)	PURY-P250YNW-A (-BS)	PURY-P300YNW-A (-BS)	PURY-P350YNW-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	22.4	28.0	33.5	40.0	
		BTU/h	76,400	95,500	114,300	136,500	
	Power input	kW	4.43	5.97	7.54	10.04	
	Current input	A	7.4-7.1-6.8	10.0-9.5-9.2	12.7-12.0-11.6	16.9-16.1-15.5	
	EER	kW/kW	5.05	4.69	4.44	3.98	
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	
Heating capacity (Max)	*2	kW	25.0	31.5	37.5	45.0	
		BTU/h	85,300	107,500	128,000	153,500	
	Power input	kW	4.71	6.06	8.38	10.68	
	Current input	A	7.9-7.5-7.2	10.2-9.7-9.3	14.1-13.4-12.9	18.0-17.1-16.5	
	COP	kW/kW	5.30	5.19	4.47	4.21	
	(Nominal)	*3	kW	22.4	28.0	33.5	40.0
			BTU/h	76,400	95,500	114,300	136,500
		Power input	kW	4.14	5.27	6.8	8.84
		Current input	A	6.9-6.6-6.3	8.8-8.4-8.1	11.4-10.9-10.5	14.9-14.1-13.6
	COP	kW/kW	5.41	5.31	4.92	4.52	
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	
Indoor unit connectable	Total capacity		50~150%	50~150%	50~150%	50~150%	
	Model / Quantity		P15~P250/1~20	P15~P250/1~25	P15~P250/1~30	P15~P250/1~35	
Sound pressure level (measured in anechoic room)	*4	dB <A>	59.0 / 59.0	60.5 / 61.0	61.0 / 67.0	62.5 / 64.0	
Sound power level (measured in anechoic room)	*4	dB <A>	76.0 / 78.0	78.5 / 80.0	80.0 / 86.5	81.0 / 83.0	
Refrigerant piping diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	
	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	
	Air flow rate	m³/min	170	185	240	250	
		L/s	2,833	3,083	4,000	4,167	
		cfm	6,003	6,532	8,474	8,828	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2	
	*5	External static press.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
		Compressor		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.6	7.0	7.9	10.2	
	Case heater	kW	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		-	-	-	-	
	Fan motor		-	-	-	-	
Refrigerant	Type x original charge		R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 8.0 kg (18 lbs)	
Net weight	kg (lbs)		229 (505)	229 (505)	231 (510)	273 (602)	
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104,106,108, 1012,1016V-J Main BC controller: CMB-P108,1012,1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB				

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT R2 Series

## PURY-P YNW-A(-BS)



### Specifications

Model			PURY-P400YNW-A (-BS)		PURY-P450YNW-A (-BS)		PURY-P500YNW-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	45.0		50.0		56.0	
		BTU/h	153,500		170,600		191,100	
	Power input	kW	11.59		12.37		12.72	
	Current input	A	19.5-18.5-17.9		20.8-19.8-19.1		21.4-20.3-19.6	
	EER	kW/kW	3.88		4.04		4.40	
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)	
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)	
Heating capacity (Max)	*2	kW	50.0		56.0		63.0	
		BTU/h	170,600		191,100		215,000	
	Power input	kW	13.65		13.48		15.28	
	Current input	A	23.0-21.8-21.0		22.7-21.6-20.8		25.7-24.5-23.6	
	COP	kW/kW	3.66		4.15		4.12	
(Nominal)	*3	kW	45.0		50.0		56.0	
		BTU/h	153,500		170,600		191,100	
	Power input	kW	10.29		10.91		12.09	
	Current input	A	17.3-16.5-15.9		18.4-17.4-16.8		20.4-19.3-18.6	
	COP	kW/kW	4.37		4.58		4.63	
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)	
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)	
Indoor unit connectable	Total capacity		50~150%		50~150%		50~150%	
	Model / Quantity		P15~P250/1~40		P15~P250/1~45		P15~P250/1~50	
Sound pressure level (measured in anechoic room)	*4	dB <A>	65.0 / 69.0		65.5 / 70.0		63.5 / 64.5	
Sound power level (measured in anechoic room)	*4	dB <A>	83.0 / 88.0		83.0 / 89.0		82.0 / 84.0	
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m³/min	315		315		295	
		L/s	5,250		5,250		4,917	
		cfm	11,123		11,123		10,416	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Compressor	*5	Motor output	0.46 x 2		0.46 x 2		0.92 x 2	
	External static press.		0 Pa (0 mmHzO)		0 Pa (0 mmHzO)		0 Pa (0 mmHzO)	
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter		Inverter	
	Motor output		kW		12.4		13.0	
External finish	Case heater		kW		-		-	
			-		-		-	
			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x1,750 x 740	
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-		-	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)	
Net weight	kg (lbs)		273 (602)		293 (646)		337 (743)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2,CMY-R160-J1 Main BC controller: CMB-P108,1012,1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB					

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT R2 Series

## PURY-P YSNW-A(-BS)



### Specifications

Model			PURY-P400YSNW-A (-BS)		PURY-P450YSNW-A (-BS)		PURY-P500YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	45.0		50.0		56.0		
		BTU/h	153,500		170,600		191,100		
	Power input	kW	9.17		10.59		12.29		
		Current input	A	15.4-14.7-14.1		17.8-16.9-16.3		20.7-19.7-18.9	
		EER	kW/kW	4.90		4.72		4.55	
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	50.0		56.0		63.0		
		BTU/h	170,600		191,100		215,000		
	Power input	kW	9.72		10.99		12.51		
		Current input	A	16.4-15.5-15.0		18.5-17.6-16.9		21.1-20.0-19.3	
		COP	kW/kW	5.14		5.09		5.03	
	(Nominal)	*3	kW	45.0		50.0		56.0	
		BTU/h	153,500		170,600		191,100		
Power input		kW	8.58		9.63		10.87		
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		
		W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
	Outdoor	W.B.							
	Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
		Model / Quantity		P15~P250/1~40		P15~P250/1~45		P15~P250/1~50	
Sound pressure level (measured in anechoic room)	*4	dB <A>	62.0 / 62.0		63.0 / 63.5		63.5 / 64.0		
Sound power level (measured in anechoic room)	*4	dB <A>	79.0 / 81.0		80.5 / 82.5		81.5 / 83.0		
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Set Model									
Model			PURY-P200YNW-A (-BS)		PURY-P200YNW-A (-BS)		PURY-P250YNW-A (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	170		170		185		
		L/s	2,833		2,833		3,083		
		cfm	6,003		6,003		6,532		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
Compressor	*5	Motor output	kW		kW		kW		
	External static press.		Pa (mmH <sub>2</sub> O)		Pa (mmH <sub>2</sub> O)		Pa (mmH <sub>2</sub> O)		
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter		
	Motor output		kW		kW		kW		
Case heater			kW		kW		kW		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD			mm		mm		mm		
			in.		in.		in.		
Protection devices			High pressure protection		High pressure protection		High pressure protection		
			Inverter circuit (COMP./FAN)		Inverter circuit (COMP./FAN)		Inverter circuit (COMP./FAN)		
			Compressor		Compressor		Compressor		
			Fan motor		Fan motor		Fan motor		
Refrigerant			Type x original charge		Type x original charge		Type x original charge		
Net weight			kg (lbs)		kg (lbs)		kg (lbs)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit and distributor			High pressure		High pressure		High pressure		
			Low pressure		Low pressure		Low pressure		
Optional parts			Outdoor Twinning kit: CMY-R100VBK4		Outdoor Twinning kit: CMY-R100VBK4		Outdoor Twinning kit: CMY-R100VBK4		
			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		
			Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA		Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA		Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA		
			Sub BC controller: CMB-P104V-KB		Sub BC controller: CMB-P104V-KB		Sub BC controller: CMB-P104V-KB		

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT R2 Series

## PURY-P YSNW-A(-BS)



### Specifications

Model			PURY-P550YSNW-A (-BS)		PURY-P600YSNW-A (-BS)		PURY-P650YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	63.0		69.0		73.0		
		BTU/h	215,000		235,400		249,100		
	Power input	kW		14.45		16.62		18.19	
	Current input	A		24.3-23.1-22.3		28.0-26.6-25.6		30.7-29.1-28.1	
	EER	kW/kW		4.35		4.15		4.01	
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	69.0		76.5		81.5		
		BTU/h	235,400		261,000		278,100		
	Power input	kW		14.70		17.62		19.35	
	Current input	A		24.8-23.5-22.7		29.7-28.2-27.2		32.6-31.0-29.9	
	COP	kW/kW		4.69		4.34		4.21	
(Nominal)	*3	kW	63.0		69.0		73.0		
		BTU/h	215,000		235,400		249,100		
	Power input	kW		13.01		15.26		16.39	
	Current input	A		24.8-23.5-22.7		25.7-24.4-23.5		27.6-26.2-25.3	
	COP	kW/kW		4.84		4.52		4.45	
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		
	Model / Quantity		P15-P250/2~50		P15-P250/2~50		P15-P250/2~50		
Sound pressure level (measured in anechoic room)	*4	dB <A>	64.0 / 68.0		64.0 / 70.0		65.0 / 69.0		
Sound power level (measured in anechoic room)	*4	dB <A>	82.5 / 87.5		83.0 / 89.5		83.5 / 88.5		
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		28.58 (1-1/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Set Model									
Model			PURY-P250YNW-A (-BS)	PURY-P300YNW-A (-BS)	PURY-P300YNW-A (-BS)	PURY-P300YNW-A (-BS)	PURY-P300YNW-A (-BS)	PURY-P350YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	
	Air flow rate	m³/min	185	240	240	240	240	250	
		L/s	3,083	4,000	4,000	4,000	4,000	4,167	
		cfm	6,532	8,474	8,474	8,474	8,474	8,828	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	*5	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2	
Compressor	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter		
	Motor output		kW	7.0	7.9	7.9	7.9	10.2	
	Case heater		kW	-	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD			mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	
			in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		-		
	Fan motor		-		-		-		
Refrigerant			Type x original charge	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 8.0 kg (18 lbs)	
Net weight			kg (lbs)	229 (505)	231 (510)	231 (510)	231 (510)	273 (602)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		19.05 (3/4) Brazed		
	Low pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C D.B. (68 °F D.B.), Outdoor: 7 °C D.B./6 °C W.B. (45 °F D.B./43 °F W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.



# OUTDOOR UNIT R2 Series

## PURY-P YSNW-A(-BS)



### Specifications

Model			PURY-P700YSNW-A (-BS)		PURY-P750YSNW-A (-BS)		PURY-P800YSNW-A (-BS)				
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz				
Cooling capacity (Nominal)			*1	kW	80.0		85.0				
				BTU/h	273,000		290,000				
				kW	20.72		22.30				
				A	34.9-33.2-32.0		37.6-35.7-34.4				
				kW/kW	3.86		3.81				
Temp. range of cooling			Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)				
			Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)				
Heating capacity (Max)			*2	kW	88.0		95.0				
				BTU/h	300,300		324,100				
				kW	21.56		24.86				
				A	36.3-34.5-33.3		41.9-39.8-38.4				
				kW/kW	4.08		3.82				
(Nominal)			*3	kW	80.0		85.0				
				BTU/h	273,000		290,000				
				kW	18.25		19.71				
				A	30.8-29.2-28.2		33.2-31.6-30.4				
				kW/kW	4.38		4.31				
Temp. range of heating			Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)				
			Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)				
Indoor unit connectable			Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity				
			Model / Quantity		P15~P250/2~50		P15~P250/2~50				
Sound pressure level (measured in anechoic room)			*4	dB <A>	65.5 / 67.0		67.0 / 70.5				
Sound power level (measured in anechoic room)			*4	dB <A>	84.0 / 86.0		85.5 / 89.5				
Refrigerant piping diameter			High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed				
			Low pressure	mm (in.)	34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed				
Set Model											
Model				PURY-P350YNW-A (-BS)	PURY-P350YNW-A (-BS)	PURY-P350YNW-A (-BS)	PURY-P400YNW-A (-BS)	PURY-P400YNW-A (-BS)			
FAN				Type x Quantity		Propeller fan x 2		Propeller fan x 2			
				Air flow rate		m³/min		250		250	
						L/s		4,167		4,167	
						cfm		8,828		8,828	
				Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Compressor				*5		Motor output		kW			
				External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)	
				Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
				Starting method		Inverter		Inverter		Inverter	
				Motor output		kW		10.2			
				Case heater		kW		10.9			
External finish				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD				mm		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740			
				in.		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16			
Protection devices				High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
				Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
				Compressor		-		-		-	
				Fan motor		-		-		-	
Refrigerant				Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)			
Net weight				kg (lbs)		273 (602)		273 (602)			
Heat exchanger				Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube			
Pipe between unit and distributor				High pressure		mm (in.)		19.05 (3/4) Brazed			
				Low pressure		mm (in.)		28.58 (1-1/8) Brazed			
Optional parts				Outdoor Twinning kit: CMY-R200VBK4		Outdoor Twinning kit: CMY-R200VBK4		Outdoor Twinning kit: CMY-R200VBK4			
				Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1			
				Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA		Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA		Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA			
				Sub BC controller: CMB-P104V-KB		Sub BC controller: CMB-P104V-KB		Sub BC controller: CMB-P104V-KB			

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT R2 Series

## PURY-P YSNW-A(-BS)



### Specifications

Model			PURY-P850YSNW-A (-BS)		PURY-P900YSNW-A (-BS)		PURY-P950YSNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	96.0		101.0		108.0			
		BTU/h	327,600		344,600		368,500			
	Power input	kW	24.99		25.76		26.40			
	Current input	A	42.1-40.0-38.6		43.4-41.3-39.8		44.5-42.3-40.8			
	EER	kW/kW	3.84		3.92		4.09			
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)			
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)			
Heating capacity (Max)	*2	kW	108.0		113.0		119.5			
		BTU/h	368,500		385,600		407,700			
	Power input	kW	28.49		28.03		29.79			
	Current input	A	48.0-45.6-44.0		47.3-44.9-43.3		50.2-47.7-46.0			
	COP	kW/kW	3.79		4.03		4.01			
	(Nominal)	*3	kW	96.0		101.0		108.0		
		BTU/h	327,600		344,600		368,500			
Power input		kW	22.11		22.74		24.15			
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)			
		W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)			
	Indoor unit connectable	Total capacity	50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity			
		Model / Quantity	P15~P250/2~50		P15~P250/2~50		P15~P250/2~50			
	Sound pressure level (measured in anechoic room)	*4	dB <A>	68.5 / 72.5		68.5 / 73.0		68.0 / 71.5		
Sound power level (measured in anechoic room)	*4	dB <A>	86.0 / 91.5		86.0 / 92.0		85.5 / 90.5			
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed			
	Low pressure	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed			
Set Model										
Model			PURY-P400YNW-A (-BS)	PURY-P450YNW-A (-BS)	PURY-P450YNW-A (-BS)	PURY-P450YNW-A (-BS)	PURY-P450YNW-A (-BS)	PURY-P500YNW-A (-BS)		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m³/min	315		315		315		295	
		L/s	5,250		5,250		5,250		4,917	
		cfm	11,123		11,123		11,123		10,416	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Compressor	*5	Motor output	kW		0.46 x 2		0.46 x 2		0.92 x 2	
		External static press.	0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)	
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter		Inverter		Inverter	
	Motor output	kW	10.9		12.4		12.4		13.0	
Case heater			kW		-		-		-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD			mm	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	
				73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16	
Protection devices			High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
			Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
			Compressor		-		-		-	
			Fan motor		-		-		-	
Refrigerant			Type x original charge		R410A x 8.0 kg (18 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Net weight			kg (lbs)		273 (602)	293 (646)	293 (646)	293 (646)	293 (646)	337 (743)
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor			High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed
			Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB	

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT R2 Series

## PURY-P YSNW-A(-BS)



### Specifications

Model			PURY-P1000YSNW-A (-BS)		PURY-P1050YSNW-A (-BS)		PURY-P1100YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	113.0		118.0		124.0		
		BTU/h	385,600		402,600		423,100		
	Power input	kW	26.45		29.20		32.54		
		Current input	A	44.6-42.4-40.8		49.2-46.8-45.1		54.9-52.1-50.2	
		EER	kW/kW	4.27		4.04		3.81	
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	127.0		132.0		140.0		
		BTU/h	433,300		450,400		477,700		
	Power input	kW	31.74		34.10		37.52		
		Current input	A	53.5-50.9-49.0		57.5-54.6-52.7		63.3-60.1-57.9	
		COP	kW/kW	4.00		3.87		3.73	
	(Nominal)	*3	kW	113.0		118.0		124.0	
			BTU/h	385,600		402,600		423,100	
		Power input	kW	25.16		27.05		29.30	
			Current input	A	42.4-40.3-38.8		45.6-43.3-41.8		49.4-46.9-45.2
	Temp. range of heating	Indoor	W.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)	
D.B.			-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Outdoor		W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50		P15~P250/3~50		P15~P250/3~50		
Sound pressure level (measured in anechoic room)	*4	dB <A>	66.5 / 67.5		68.0 / 73.0		69.0 / 73.0		
Sound power level (measured in anechoic room)	*4	dB <A>	85.0 / 87.0		86.0 / 92.0		86.5 / 92.0		
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed		
	Low pressure	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed		
Set Model									
Model			PURY-P500YNW-A (-BS)		PURY-P500YNW-A (-BS)		PURY-P550YNW-A (-BS)*		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		
	Air flow rate	m³/min	295		295		410		
		L/s	4,917		4,917		6,833		
		cfm	10,416		10,416		14,477		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
Compressor	*5	Motor output	0.92 x 2		0.92 x 2		0.92 x 2		
		External static press.	0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter		
	Motor output	kW	13.0		13.0		14.3		
Case heater			kW		-		-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD	mm	1,858 (1,798 without legs) x 1,750 x 740		1,858 (1,798 without legs) x 1,750 x 740		1,858 (1,798 without legs) x 1,750 x 740			
	in.	73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16			
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		-		
	Fan motor		-		-		-		
Refrigerant	Type x original charge		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		
Net weight	kg (lbs)		337 (743)		337 (743)		337 (743)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

\*22HP (P550) can be used only in combination with others.

# OUTDOOR UNIT

## R2 Series - High efficiency

# PURY-EP YNW-A(-BS)



## Specifications

Model			PURY-EP200YNW-A (-BS)	PURY-EP250YNW-A (-BS)	PURY-EP300YNW-A (-BS)	PURY-EP350YNW-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	22.4	28.0	33.5	40.0	
		BTU/h	76,400	95,500	114,300	136,500	
	Power input	kW	4.23	5.62	7.39	8.81	
		A	7.1-6.7-6.5	9.4-9.0-8.6	12.4-11.8-11.4	14.8-14.1-13.6	
Temp. range of cooling	EER	kW/kW	5.29	4.98	4.53	4.54	
		Indoor	W.B. 15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	
	Outdoor	D.B. -5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)		
		Heating capacity (Max)	*2	kW	25.0	31.5	37.5
BTU/h	85,300			107,500	128,000	153,500	
Power input	kW		4.57	5.98	8.36	10.24	
	Current input		A	7.7-7.3-7.0	10.0-9.5-9.2	14.1-13.4-12.9	17.2-16.4-15.8
(Nominal)	*3	COP	kW/kW	5.47	5.26	4.48	4.39
		kW	22.4	28.0	33.5	40.0	
	BTU/h	76,400	95,500	114,300	136,500		
		Power input	kW	3.95	5.23	6.80	8.78
Current input	A		6.6-6.3-6.1	8.8-8.3-8.0	11.4-10.9-10.5	14.8-14.0-13.5	
Temp. range of heating	COP	kW/kW	5.67	5.35	4.92	4.55	
		Indoor	D.B. 15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	
	Outdoor	W.B. -20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)		
		Indoor unit connectable	Total capacity	50~150%	50~150%	50~150%	50~150%
Model / Quantity	P15~P250/1~20		P15~P250/1~25	P15~P250/1~30	P15~P250/1~35		
Sound pressure level (measured in anechoic room)	*4	dB <A>	59.0 / 59.0	60.5 / 61.0	61.0 / 67.0	62.5 / 64.0	
Sound power level (measured in anechoic room)	*4	dB <A>	76.0 / 78.0	78.5 / 80.0	80.0 / 86.5	81.0 / 83.0	
Refrigerant piping diameter	High pressure	mm (in.)	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	
	Low pressure	mm (in.)	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	
	Air flow rate	m³/min	170	185	240	250	
		L/s	2,833	3,083	4,000	4,167	
		cfm	6,003	6,532	8,474	8,828	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.46 x 2	
	*5 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	
	Starting method		Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	5.6	7.0	7.9	10.2	
	Case heater	kW	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	
	Compressor		-	-	-	-	
	Fan motor		-	-	-	-	
Refrigerant	Type x original charge		R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 8.0 kg (18 lbs)	
Net weight	kg (lbs)		234 (516)	234 (516)	236 (521)	279 (616)	
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104,106,108, 1012,1016V-J Main BC controller: CMB-P108,1012,1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB				

### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.



# OUTDOOR UNIT

## R2 Series - High efficiency

### PURY-EP YNW-A(-BS)



## Specifications

Model			PURY-EP400YNW-A (-BS)		PURY-EP450YNW-A (-BS)		PURY-EP500YNW-A (-BS)					
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz					
Cooling capacity (Nominal)		*1	kW	45.0	50.0	56.0						
			BTU/h	153,500	170,600	191,100						
		Power input	kW	11.33	10.72	12.69						
		Current input	A	19.1-18.1-17.5	18.0-17.1-16.5	21.4-20.3-19.6						
		EER	kW/kW	3.97	4.66	4.41						
Temp. range of cooling		Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)						
		Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)						
Heating capacity (Max)		*2	kW	50.0	56.0	63.0						
			BTU/h	170,600	191,100	215,000						
		Power input	kW	12.98	13.14	14.21						
		Current input	A	21.9-20.8-20.0	22.1-21.0-20.3	23.9-22.7-21.9						
		COP	kW/kW	3.85	4.26	4.43						
		(Nominal)	*3	kW	45.0	50.0	56.0					
				BTU/h	153,500	170,600	191,100					
			Power input	kW	10.24	10.01	11.78					
Current input	A		17.2-16.4-15.8	16.8-16.0-15.4	19.8-18.8-18.2							
COP	kW/kW	4.39	4.99	4.75								
Temp. range of heating		Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)						
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)						
Indoor unit connectable		Total capacity		50~150%	50~150%	50~150%						
		Model / Quantity		P15~P250/1~40	P15~P250/1~45	P15~P250/1~50						
Sound pressure level (measured in anechoic room)		*4	dB <A>	65.0 / 69.0	65.5 / 70.0	63.5 / 64.5						
Sound power level (measured in anechoic room)		*4	dB <A>	83.0 / 88.0	83.0 / 89.0	82.0 / 84.0						
Refrigerant piping diameter		High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed						
FAN		Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed						
		Type x Quantity	Propeller fan x 2			Propeller fan x 2	Propeller fan x 2					
		Air flow rate	m³/min	315	315	295						
			L/s	5,250	5,250	4,917						
			cfm	11,123	11,123	10,416						
		Control, Driving mechanism	Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor					
		Motor output	kW	0.46 x 2	0.46 x 2	0.92 x 2						
		*5 External static press.	0 Pa (0 mmH₂O)			0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)					
Compressor		Type	Inverter scroll hermetic compressor			Inverter scroll hermetic compressor	Inverter scroll hermetic compressor					
		Starting method	Inverter			Inverter	Inverter					
		Motor output	kW	10.9	12.4	13.0						
		Case heater	kW	-	-	-						
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740			1,858 (1,798 without legs) x 1,240 x 740			1,858 (1,798 without legs) x 1,750 x 740			
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16			73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16			73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16			
Protection devices		High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
		Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
		Compressor		-			-			-		
Refrigerant		Fan motor		-			-			-		
		Type x original charge		R410A x 8.0 kg (18 lbs)			R410A x 10.8 kg (24 lbs)			R410A x 10.8 kg (24 lbs)		
Net weight			kg (lbs)	282 (622)			306 (675)			345 (761)		
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube			
Optional parts				Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB								

### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT

## R2 Series - High efficiency

### PURY-EP YSNW-A(-BS)



## Specifications

Model			PURY-EP400YSNW-A (-BS)		PURY-EP450YSNW-A (-BS)		PURY-EP500YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	45.0		50.0		56.0		
		BTU/h	153,500		170,600		191,100		
	Power input	kW	8.77		10.04		11.59		
		Current input	A	14.8-14.0-13.5		16.9-16.1-15.5		19.5-18.5-17.9	
		EER	kW/kW	5.13		4.98		4.83	
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	50.0		56.0		63.0		
		BTU/h	170,600		191,100		215,000		
	Power input	kW	9.42		10.76		12.34		
		Current input	A	15.9-15.1-14.5		18.1-17.2-16.6		20.8-19.7-19.0	
		COP	kW/kW	5.30		5.20		5.10	
(Nominal)	*3	kW	45.0		50.0		56.0		
		BTU/h	153,500		170,600		191,100		
	Power input	kW	8.17		9.35		10.78		
		Current input	A	13.7-13.1-12.6		15.7-14.9-14.4		18.1-17.2-16.6	
		COP	kW/kW	5.50		5.34		5.19	
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		
	Model / Quantity		P15~P250/1~40		P15~P250/1~45		P15~P250/1~50		
Sound pressure level (measured in anechoic room)		*4	dB <A> 62.0 / 62.0		63.0 / 63.5		63.5 / 64.0		
Sound power level (measured in anechoic room)		*4	dB <A> 79.0 / 81.0		80.5 / 82.5		81.5 / 83.0		
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Set Model									
Model			PURY-EP200YNW-A (-BS)		PURY-EP200YNW-A (-BS)		PURY-EP250YNW-A (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	170		170		185		
		L/s	2,833		2,833		3,083		
		cfm	6,003		6,003		6,532		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
Compressor	*5	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1		
		External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)		
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter		
	Motor output		kW	5.6	5.6	5.6	7.0	7.0	
Case heater		kW	-	-	-	-	-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD	mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740		
		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		-		
Fan motor		-		-		-			
Refrigerant		Type x original charge	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)	R410A x 5.2 kg (12 lbs)		
Net weight		kg (lbs)	234 (516)	234 (516)	234 (516)	234 (516)	234 (516)		
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	High pressure	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed		
	Low pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		

### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT R2 Series - High efficiency

## PURY-EP YSNW-A(-BS)



### Specifications

Model			PURY-EP550YSNW-A (-BS)		PURY-EP600YSNW-A (-BS)		PURY-EP650YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	63.0		69.0		73.0		
		BTU/h	215,000		235,400		249,100		
		Power input	kW		13.66		15.71		
		Current input	A		23.0-21.9-21.1		26.5-25.1-24.2		
Temp. range of cooling	EER	kW/kW	4.61		4.39		4.40		
		Indoor	W.B. 15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
		Outdoor	D.B. -5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	69.0		76.5		81.5		
		BTU/h	235,400		261,000		278,100		
		Power input	kW		14.61		17.58		
		Current input	A		24.6-23.4-22.5		29.6-28.1-27.1		
(Nominal)	COP	kW/kW	4.72		4.35		4.30		
		*3	kW	63.0		69.0		73.0	
		BTU/h	215,000		235,400		249,100		
		Power input	kW		12.64		14.46		
Temp. range of heating	Current input	A	21.3-20.2-19.5		24.4-23.1-22.3		26.8-25.4-24.5		
		COP	kW/kW		4.98		4.77		
		Indoor	D.B. 15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		
		Outdoor	W.B. -20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		P15~P250/2~50		
Sound pressure level (measured in anechoic room)	*4	dB <A>	64.0 / 68.0		64.0 / 70.0		65.0 / 69.0		
Sound power level (measured in anechoic room)	*4	dB <A>	82.5 / 87.5		83.0 / 89.5		83.5 / 88.5		
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		28.58 (1-1/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Set Model									
Model			PURY-EP250YNW-A (-BS)	PURY-EP300YNW-A (-BS)	PURY-EP300YNW-A (-BS)	PURY-EP300YNW-A (-BS)	PURY-EP300YNW-A (-BS)	PURY-EP350YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	185		240		240		
		L/s	3,083		4,000		4,000		
		cfm	6,532		8,474		8,474		
Compressor	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1		0.92 x 1		0.92 x 1		
	External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
External finish	Starting method		Inverter		Inverter		Inverter		
	Motor output	kW	7.0		7.9		7.9		
	Case heater	kW	-		-		-		
			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD	mm	1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 1,240 x 740	
	in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		-		
	Fan motor		-		-		-		
Refrigerant	Type x original charge		R410A x 5.2 kg (12 lbs)		R410A x 5.2 kg (12 lbs)		R410A x 5.2 kg (12 lbs)		
Net weight	kg (lbs)		234 (516)		236 (521)		236 (521)		
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		19.05 (3/4) Brazed		
	Low pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R100VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB/45°F DB/43°F WB	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT R2 Series - High efficiency

## PURY-EP YSNW-A(-BS)



### Specifications

Model			PURY-EP700YSNW-A (-BS)		PURY-EP750YSNW-A (-BS)		PURY-EP800YSNW-A (-BS)									
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz									
Cooling capacity (Nominal)	*1	kW	80.0		85.0		90.0									
		BTU/h	273,000		290,000		307,100									
		Power input	kW	18.18		20.58		23.37								
		Current input	A	30.6-29.1-28.1		34.7-33.0-31.8		39.4-37.4-36.1								
Temp. range of cooling	EER	kW/kW	4.40		4.13		3.85									
		Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)								
		Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)								
		W.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)									
Heating capacity (Max)	*2	kW	88.0		95.0		100.0									
		BTU/h	300,300		324,100		341,200									
		Power input	kW	20.65		23.74		26.80								
		Current input	A	34.8-33.1-31.9		40.0-38.0-36.6		45.2-42.9-41.4								
(Nominal)	*3	COP	4.26		4.00		3.73									
		kW/kW	80.0		85.0		90.0									
		BTU/h	273,000		290,000		307,100									
		Power input	kW	18.13		19.58		21.12								
Temp. range of heating	Current input	A	30.6-29.0-28.0		33.0-31.4-30.2		35.6-33.8-32.6									
		COP	4.41		4.34		4.26									
		Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)								
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)								
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity									
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		P15~P250/2~50									
Sound pressure level (measured in anechoic room)		*4	dB <A>		65.5 / 67.0		67.0 / 70.5									
Sound power level (measured in anechoic room)		*4	dB <A>		84.0 / 86.0		85.5 / 89.5									
Refrigerant piping diameter	High pressure		mm (in.)		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed									
	Low pressure		mm (in.)		34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed									
Set Model																
Model			PURY-EP350YNW-A (-BS)		PURY-EP350YNW-A (-BS)		PURY-EP350YNW-A (-BS)		PURY-EP400YNW-A (-BS)		PURY-EP400YNW-A (-BS)		PURY-EP400YNW-A (-BS)			
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2			
	Air flow rate	m³/min	250		250		250		315		315		315			
		L/s	4,167		4,167		4,167		5,250		5,250		5,250			
		cfm	8,828		8,828		8,828		11,123		11,123		11,123			
*5	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor			
	Motor output		kW		0.46 x 2		0.46 x 2		0.46 x 2		0.46 x 2		0.46 x 2			
	External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)			
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
Compressor	Starting method		Inverter		Inverter		Inverter		Inverter		Inverter		Inverter			
	Motor output		kW		10.2		10.2		10.2		10.9		10.9			
	Case heater		kW		-		-		-		-		-			
	Case heater		kW		-		-		-		-		-			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD			mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		
in.				73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		
Protection devices			High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
Inverter circuit (COMP./FAN)			Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
Compressor			-		-		-		-		-		-		-	
Fan motor			-		-		-		-		-		-		-	
Refrigerant			Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)	
Net weight			kg (lbs)		279 (616)		279 (616)		279 (616)		282 (622)		282 (622)		282 (622)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor			High pressure		mm (in.)		19.05 (3/4) Brazed		19.05 (3/4) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed	
Low pressure			mm (in.)		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB		Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB	

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.



# OUTDOOR UNIT

## R2 Series - High efficiency

### PURY-EP YSNW-A(-BS)



## Specifications

Model			PURY-EP850YSNW-A (-BS)		PURY-EP900YSNW-A (-BS)		PURY-EP950YSNW-A (-BS)							
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz							
Cooling capacity (Nominal)	*1	kW	96.0		101.0		108.0							
		BTU/h	327,600		344,600		368,500							
	Power input	kW	22.91		22.34		24.54							
	Current input	A	38.6-36.7-35.4		37.7-35.8-34.5		41.4-39.3-37.9							
	EER	kW/kW	4.19		4.52		4.40							
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)							
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)							
Heating capacity (Max)	*2	kW	108.0		113.0		119.5							
		BTU/h	368,500		385,600		407,700							
	Power input	kW	27.47		27.35		28.37							
	Current input	A	46.3-44.0-42.4		46.1-43.8-42.2		47.8-45.4-43.8							
	COP	kW/kW	3.93		4.13		4.21							
(Nominal)	*3	kW	96.0		101.0		108.0							
		BTU/h	327,600		344,600		368,500							
	Power input	kW	21.09		20.86		22.87							
	Current input	A	35.6-33.8-32.6		35.2-33.4-32.2		38.6-36.6-35.3							
	COP	kW/kW	4.55		4.84		4.72							
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)							
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)							
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity							
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		P15~P250/2~50							
Sound pressure level (measured in anechoic room)	*4	dB <A>	68.5 / 72.5		68.5 / 73.0		68.0 / 71.5							
Sound power level (measured in anechoic room)	*4	dB <A>	86.0 / 91.5		86.0 / 92.0		85.5 / 90.5							
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed							
	Low pressure	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed							
Set Model														
Model			PURY-EP400YNW-A (-BS)		PURY-EP450YNW-A (-BS)		PURY-EP450YNW-A (-BS)		PURY-EP500YNW-A (-BS)					
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2					
	Air flow rate	m³/min	315		315		315		295					
		L/s	5,250		5,250		5,250		4,917					
		cfm	11,123		11,123		11,123		10,416					
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor					
Compressor	*5	Motor output	kW		0.46 x 2		0.46 x 2		0.92 x 2					
		External static press.	0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)					
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor					
	Starting method		Inverter		Inverter		Inverter		Inverter					
	Motor output	kW	10.9		12.4		12.4		13.0					
Case heater		kW	-		-		-		-					
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External dimension HxWxD			mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740				
				in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16			
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)					
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection					
	Compressor		-		-		-		-					
Fan motor		-		-		-		-						
Refrigerant			Type x original charge	R410A x 8.0 kg (18 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)					
Net weight			kg (lbs)	282 (622)	306 (675)	306 (675)	306 (675)	306 (675)	345 (761)					
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube					
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed					
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed					
Optional parts			Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB				Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB				Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA Sub BC controller: CMB-P104V-KB			

### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT R2 Series - High efficiency

## PURY-EP YSNW-A(-BS)



### Specifications

Model			PURY-EP1000YSNW-A (-BS)		PURY-EP1050YSNW-A (-BS)		PURY-EP1100YSNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)			*1	kW	113.0		118.0			
				BTU/h	385,600		402,600			
				Power input kW	26.40		29.13			
				Current input A	44.5-42.3-40.8		49.1-46.7-45.0			
Temp. range of cooling			EER	kW/KW	4.28		4.05			
			Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)			
			Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)			
Heating capacity (Max)			*2	kW	127.0		140.0			
				BTU/h	433,300		450,400			
				Power input kW	29.52		32.58			
				Current input A	49.8-47.3-45.6		55.0-52.2-50.3			
(Nominal)			COP	kW/kW	4.30		4.05			
				kW	113.0		118.0			
				BTU/h	385,600		402,600			
				Power input kW	24.50		26.69			
Temp. range of heating				Current input A	41.3-39.2-37.8		45.0-42.8-41.2			
			COP	kW/kW	4.61		4.42			
			Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)			
			Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)			
Indoor unit connectable			Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity			
			Model / Quantity		P15~P250/2~50		P15~P250/3~50			
Sound pressure level (measured in anechoic room)			*4	dB <A>	66.5 / 67.5		68.0 / 73.0			
Sound power level (measured in anechoic room)			*4	dB <A>	85.0 / 87.0		86.0 / 92.0			
Refrigerant piping diameter			High pressure	mm (in.)	28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed			
			Low pressure	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed			
Set Model										
Model				PURY-EP500YNW-A (-BS)		PURY-EP500YNW-A (-BS)		PURY-EP500YNW-A (-BS)*		
FAN				Type x Quantity		Propeller fan x 2		Propeller fan x 2		
				Air flow rate		m³/min	295		295	
						L/s	4,917		4,917	
						cfm	10,416		10,416	
				Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
				Motor output		kW		kW		
				External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		
Compressor				Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
				Starting method		Inverter		Inverter		
				Motor output		kW		13.0		
				Case heater		kW		14.3		
External finish				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD				mm	1,858 (1,798 without legs) x 1,750 x 740		1,858 (1,798 without legs) x 1,750 x 740			
					in.	73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		
Protection devices				High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
				Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
				Compressor		-		-		
				Fan motor		-		-		
Refrigerant				Type x original charge		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		
Net weight				kg (lbs)		345 (761)		345 (761)		
Heat exchanger				Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor				High pressure		mm (in.)		22.2 (7/8) Brazed		
Optional parts				Low pressure		mm (in.)		28.58 (1-1/8) Brazed		
Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB										
Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB										
Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB										

Set Model			PURY-EP500YNNW-A (-BS)		PURY-EP500YNNW-A (-BS)		PURY-EP500YNNW-A (-BS)*		PURY-EP500YNNW-A (-BS)*		PURY-EP500YNNW-A (-BS)*			
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2			
	Air flow rate	m <sup>3</sup> /min	295		295		295		410		410			
		L/s	4,917		4,917		4,917		6,833		6,833			
		cfm	10,416		10,416		10,416		14,477		14,477			
	Control, Driving mechanism		Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 2		0.92 x 2		0.92 x 2		0.92 x 2		0.92 x 2			
	*5 External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)			
Compressor	Type		Inverter scroll hermetic compressor				Inverter scroll hermetic compressor				Inverter scroll hermetic compressor			
	Starting method		Inverter		Inverter		Inverter		Inverter		Inverter			
	Motor output	kW	13.0		13.0		13.0		14.3		14.3			
	Case heater	kW	-		-		-		-		-			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,750 x 740		1,858 (1,798 without legs) x 1,750 x 740		1,858 (1,798 without legs) x 1,750 x 740		1,858 (1,798 without legs) x 1,750 x 740		1,858 (1,798 without legs) x 1,750 x 740			
		in.	73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16			
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
	Compressor		-				-				-			
	Fan motor		-				-				-			
Refrigerant			Type x original charge	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)			
Net weight			kg (lbs)	345 (761)		345 (761)		345 (761)		345 (761)				
Heat exchanger			Salt-resistant cross fin & aluminium tube				Salt-resistant cross fin & aluminium tube				Salt-resistant cross fin & aluminium tube			
Pipe between unit and distributor			High pressure	mm (in.)	22.2 (7/8) Braze		22.2 (7/8) Braze		22.2 (7/8) Braze		22.2 (7/8) Braze			
			Low pressure	mm (in.)	28.58 (1-1/8) Braze		28.58 (1-1/8) Braze		28.58 (1-1/8) Braze		28.58 (1-1/8) Braze			
Optional parts			Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB				Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB				Outdoor Twinning kit: CMY-R200VBK4 Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-KA Sub BC controller: CMB-P104V-KB			

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30Pa, 60Pa, 80Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O, 8.2mmH<sub>2</sub>O).

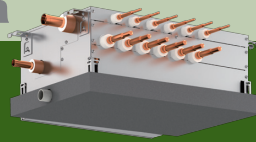
Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

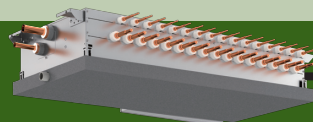
\*22HP (P550) can be used only in combination with others.

# BC CONTROLLER

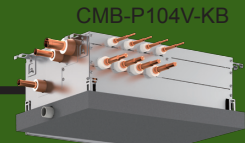
## CMB-P-V-J CMB-P-V-JA CMB-P-V-KA CMB-P-V-KB



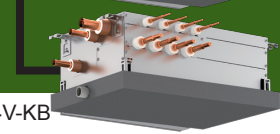
CMB-P106V-J



CMB-P1016V-J



CMB-P104V-KB



CMB-P104V-KB

## Specifications

Model				CMB-P104V-J		CMB-P106V-J		CMB-P108V-J		CMB-P1012V-J		CMB-P1016V-J		
Number of branch				4		6		8		12		16		
Power source				1-phase 220-230-240 V										
Power input		kW	50Hz	Cooling	0.067/0.076/0.085		0.097/0.110/0.123		0.127/0.144/0.161		0.186/0.211/0.236		0.246/0.279/0.312	
				Heating	0.030/0.034/0.038		0.045/0.051/0.057		0.060/0.068/0.076		0.090/0.102/0.114		0.119/0.135/0.151	
			60Hz	Cooling	0.054/0.061/0.067		0.078/0.088/0.097		0.102/0.115/0.127		0.150/0.168/0.186		0.198/0.222/0.246	
				Heating	0.024/0.027/0.030		0.036/0.041/0.045		0.048/0.054/0.060		0.072/0.081/0.090		0.096/0.108/0.119	
Current		A	50Hz	Cooling	0.31/0.34/0.36		0.45/0.48/0.52		0.58/0.63/0.68		0.85/0.92/0.99		1.12/1.22/1.30	
				Heating	0.14/0.15/0.16		0.21/0.23/0.24		0.28/0.30/0.32		0.42/0.44/0.48		0.55/0.59/0.63	
			60Hz	Cooling	0.25/0.27/0.28		0.36/0.39/0.41		0.47/0.50/0.53		0.69/0.74/0.78		0.90/0.97/1.03	
				Heating	0.11/0.12/0.13		0.17/0.18/0.19		0.22/0.24/0.25		0.33/0.36/0.38		0.44/0.47/0.50	
External finish				Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)										
Indoor unit capacity connectable to 1 branch *12				Model P80 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P81.)										
Connectable outdoor/heat source unit capacity				P200 to P350										
Height		mm		246										
Width		mm		596					911			1,135		
Depth		mm		495										
Refrigerant piping diameter	To outdoor/heat source unit		Connectable unit capacity											
			P200			P250/P300			P350 <sup>*13</sup>					
	To indoor unit	High press. pipe	15.88 (5/8) Brazed					19.05 (3/4) Brazed			19.05 (3/4) Brazed or 22.2 (7/8) Brazed			
		Low press. pipe	19.05 (3/4) Brazed					22.2 (7/8) Brazed			28.58 (1-1/8) Brazed			
		Liquid pipe	Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed											
		Gas pipe	Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4), 22.2(7/8) with optional joint pipe used.)											
Drain pipe		mm (in.)		O.D. 32 (1-1/4)										
Net weight		kg (lbs)		23 (51)		27 (60)		31 (69)		46 (102)		56 (124)		
Sound power level (measured in anechoic room)		dB <A>		56(When P200 Outdoor/Heat source unit is connected),57(P250),59(P350)										
Sound pressure level (measured in anechoic room)		dB <A>		38(When P200 Outdoor/Heat source unit is connected),39(P250),40(P350)										
Accessories				53										
				Drain Connection pipe, Washer, Tie band										

Model				CMB-P108V-JA				CMB-P1012V-JA				CMB-P1016V-JA				
Number of branch				8				12				16				
Power source				1-phase 220-230-240 V												
Power input		kW	50Hz	Cooling	0.127/0.144/0.161				0.186/0.211/0.236				0.246/0.279/0.312			
				Heating	0.060/0.068/0.076				0.090/0.102/0.114				0.119/0.135/0.151			
			60Hz	Cooling	0.102/0.115/0.127				0.150/0.168/0.186				0.198/0.222/0.246			
				Heating	0.048/0.054/0.060				0.072/0.081/0.090				0.096/0.108/0.119			
Current		A	50Hz	Cooling	0.58/0.63/0.68				0.85/0.92/0.99				1.12/1.22/1.30			
				Heating	0.28/0.30/0.32				0.42/0.44/0.48				0.55/0.59/0.63			
			60Hz	Cooling	0.47/0.50/0.53				0.69/0.74/0.78				0.90/0.97/1.03			
				Heating	0.22/0.24/0.25				0.33/0.36/0.38				0.44/0.47/0.50			
External finish				Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)												
Indoor unit capacity connectable to 1 branch *12				Model P80 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P81.)												
Connectable outdoor/heat source unit capacity				P200 to P900												
Height		mm		246												
Width		mm		911				1,135								
Depth		mm		639												
Refrigerant piping diameter	To outdoor/heat source unit		Connectable unit capacity													
			P200	P250/P300	P350 <sup>*13</sup>	P400 to P500	P550 <sup>*13</sup>	P600 <sup>*13</sup>	P650	P700 to P800	P850 to P900					
			High press. pipe	15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed or 22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed							
	To indoor unit	Low press. pipe	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed			28.58 (1-1/8) Brazed or 34.93 (1-3/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed					
		Liquid pipe	Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed													
		Gas pipe	Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4), 22.2 (7/8) with optional joint pipe used.)													
	To other BC controller		Total down-stream Indoor unit capacity													
			to P200	P201 to P300	P301 to P350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above					
			High press. pipe	15.88 (5/8) Brazed	19.05 (3/4) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed					
			Low press. pipe	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed			34.93 (1-3/8) Brazed	41.28 (1-5/8) Brazed						
Liquid pipe		9.52 (3/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed		19.05 (3/4) Brazed								
Drain pipe		mm (in.)		O.D. 32 (1-1/4)												
Net weight		kg (lbs)		45 (100)				55 (122)				63 (139)				
Sound power level (measured in anechoic room)		dB <A>		62(When P250 Outdoor/Heat source unit is connected),65(P450),68(P700),69(P900)												
Sound pressure level (measured in anechoic room)		dB <A>		44(When P250 Outdoor/Heat source unit is connected),47(P450),50(P700),51(P900)												
Accessories				56												
				Drain Connection pipe, Washer, Tie band												

### ★ Combination chart of BC Controller for R2 series (YNW)

	P200-P350	P400-P900	P950-P1100
CMB-P V-J	✓	N/A	N/A
CMB-P V-JA	✓	✓	N/A
CMB-P V-KA	✓	✓	✓
CMB-P V-KB (Sub)	CMB-P108/1012/1016V-JA, CMB-P1016V-KA		

# Specifications

Model				CMB-P1016V-KA										
Number of branch				16										
Power source				1-phase 220-230-240 V										
Power input	kW	50Hz	Cooling	0.246/0.279/0.312										
			Heating	0.119/0.135/0.151										
		60Hz	Cooling	0.198/0.222/0.246										
			Heating	0.096/0.108/0.119										
Current	A	50Hz	Cooling	1.12/1.22/1.30										
			Heating	0.55/0.59/0.63										
		60Hz	Cooling	0.90/0.97/1.03										
			Heating	0.44/0.47/0.50										
External finish				Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)										
Indoor unit capacity connectable to 1 branch *12				Model P80 or smaller (Use optional joint pipe combing 2 branches when the total unit capacity exceeds P81.)										
The maximum number of connectable Sub BC controllers				-										
The maximum connectable capacity of indoor units				-										
Connectable outdoor/heat source unit capacity				P200 to P1100										
Connectable Main BC controller				-										
Height		mm		246										
Width		mm		1,135										
Depth		mm		639										
Refrigerant piping diameter	To outdoor/heat source unit	Connectable unit capacity												
		P200	P250/P300	P350 *13	P400 to P500	P550 *13	P600 *13	P650	P700 to P800	P850 to P1000	P1050 to P1100			
		15.88 (5/8) Brazed	19.05 (3/4) Brazed	19.05 (3/4) Brazed or 22.2 (7/8) Brazed	22.2 (7/8) Brazed	22.2 (7/8) Brazed or 28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed			34.93 (1-3/8) Brazed			
	High press. pipe	15.88 (5/8) Brazed	19.05 (3/4) Brazed	28.58 (1-1/8) Brazed			28.58 (1-1/8) Brazed or 34.93 (1-3/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28(1-5/8) Brazed				
		19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed					28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28(1-5/8) Brazed			
	Low press. pipe	19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed					28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28(1-5/8) Brazed			
		19.05 (3/4) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed					28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	41.28(1-5/8) Brazed			
	Liquid pipe	9.52 (3/8) Brazed	12.7 (1/2) Brazed			15.88 (5/8) Brazed		19.05 (3/4) Brazed						
		O.D. 32 (1-1/4)												
	Net weight		kg (lbs)		65 (144)									
Sound power level (measured in anechoic room)	dB <A>	Rated operation	56(When P300 Outdoor/Heat source unit is connected),61(P550),63(P800),66(P1100)											
		Defrost	73											
Sound pressure level (measured in anechoic room)	dB <A>	Rated operation	38(When P300 Outdoor/Heat source unit is connected),43(P550),45(P800),48(P1100)											
		Defrost	55											
Accessories				Drain Connection pipe, Washer, Tie band										

Model				CMB-P104V-KB *14*15										
Number of branch				4										
Power source				1-phase 220-230-240 V										
Power input	kW	50Hz	Cooling	0.060/0.068/0.076										
			Heating	0.030/0.034/0.038										
		60Hz	Cooling	0.048/0.054/0.060										
			Heating	0.024/0.027/0.030										
Current	A	50Hz	Cooling	0.28/0.30/0.32										
			Heating	0.14/0.15/0.16										
		60Hz	Cooling	0.22/0.24/0.25										
			Heating	0.11/0.12/0.13										
External finish				Galvanized steel plate (Lower part drain pan: Pre-coated galvanized sheets + powder coating)										
The maximum number of connectable Sub BC controllers				11										
The maximum connectable capacity of indoor units				P350 for each										
Connectable Main BC controller				CMB-P108/1012/1016V-JA, CMB-P1016V-KA										
Height		mm		246										
Width		mm		596										
Depth		mm		495										
Refrigerant piping diameter	To outdoor/heat source unit	-												
		-												
		-												
	High press. pipe	-												
		-												
	Low press. pipe	-												
		-												
	Liquid pipe	Indoor unit Model 50 or smaller 6.35 (1/4) Brazed bigger than 50 9.52 (3/8) Brazed												
		Indoor unit Model 50 or smaller 12.7 (1/2) Brazed bigger than 50 15.88 (5/8) Brazed (19.05 (3/4) with optional joint pipe used.)												
	To other BC controller	Total down-stream Indoor unit capacity												
to P200		P201 to P300	P301 to P350	P351 to P400	P401 to P600	P601 to P650	P651 to P800	P801 to P1000	P1001 or above					
15.88 (5/8) Brazed		19.05 (3/4) Brazed	22.2 (7/8) Brazed			28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed			34.93 (1-3/8) Brazed			
19.05 (3/4) Brazed		22.2 (7/8) Brazed	28.58 (1-1/8) Brazed					34.93 (1-3/8) Brazed	41.28(1-5/8) Brazed					
19.05 (3/4) Brazed		22.2 (7/8) Brazed	28.58 (1-1/8) Brazed					34.93 (1-3/8) Brazed	41.28(1-5/8) Brazed					
Liquid pipe	9.52 (3/8) Brazed	12.7 (1/2) Brazed			15.88 (5/8) Brazed		19.05 (3/4) Brazed							
	O.D. 32 (1-1/4)													
Net weight		kg (lbs)		21 (47)										
Sound power level (measured in anechoic room)	dB <A>	Rated operation	56(When P200 Outdoor/Heat source unit is connected),57(P250),59(P350)											
		Defrost	71											
Sound pressure level (measured in anechoic room)	dB <A>	Rated operation	38(When P200 Outdoor/Heat source unit is connected),39(P250),40(P350)											
		Defrost	53											
Accessories				Drain Connection pipe, Washer, Tie band										

## Notes:

1. Installation/foundation work, electrical connection work, insulation work, power source switch, and other items shall be referred to the Installation Manual.
2. The equipment is for R410A refrigerant.
3. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.  
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
4. Sound pressure/power level differs depending on the connected outdoor/heat source unit capacity or operation condition.  
The sound pressure/power level at the rated operation is the value of the cooling mode.
5. The sound pressure/power level values were obtained in an anechoic room. Actual sound pressure level is usually greater than that measured in anechoic room due to ambient noise and deflection sound.
6. The sound pressure level values were obtained at the location below 1.5m from the unit.
7. The solenoid valve switching sound is 56 dB regardless of the unit model.
8. Indoor units P100, P125, P140 can be connected to 1 branch. (In this case, cooling capacity decreases a little.)
9. Refrigerant piping diameter for connection of plural indoor units with 1 branch shall be referred to the Installation Manual.
10. This unit is not designed for outside installations.
11. When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- \*12 Indoor unit capacity connectable to 1 branch is changed depending on the indoor unit type and connection method. Please refer to the Installation Manual for more information.
- \*13 For the refrigerant pipe size, refer to Installation Manual of outdoor units/heat source units.
- \*14 When blazing the pipes, be sure to blaze, after covering a wet cloth to the insulation pipes of the units in order to prevent it from burning and shrinking by heat.
- \*15 Can't use singleness. (MAIN BC CONTROLLER is necessary)



# OUTDOOR UNIT Y Series

## PUHY-P YNW-A(-BS)



### Specifications

Model			PUHY-P200YNW-A (-BS)		PUHY-P250YNW-A (-BS)		PUHY-P300YNW-A (-BS)		PUHY-P350YNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	22.4		28.0		33.5		40.0		
		BTU/h	76,400		95,500		114,300		136,500		
	Power input	kW	4.24		5.78		7.66		9.87		
		Current input	A	7.1-6.7-6.5		9.7-9.2-8.9		12.9-12.2-11.8		16.6-15.8-15.2	
EER		kW/kW	5.28		4.84		4.37		4.05		
		W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
Temp. range of cooling	Indoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
		Outdoor	D.B.		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	25.0		31.5		37.5		45.0		
		BTU/h	85,300		107,500		128,000		153,500		
	Power input	kW	4.58		6.04		7.86		10.51		
		Current input	A	7.7-7.3-7.0		10.1-9.6-9.3		13.2-12.6-12.1		17.7-16.8-16.2	
(Nominal)	*3	COP	5.45		5.21		4.77		4.28		
		kW/kW	5.45		5.21		4.77		4.28		
	kW	22.4		28.0		33.5		40.0			
		BTU/h	76,400		95,500		114,300		136,500		
Temp. range of heating	Indoor	kW	3.95		5.20		6.70		8.51		
		Current input	A	6.6-6.3-6.1		8.7-8.3-8.0		11.3-10.7-10.3		14.3-13.6-13.1	
	COP	kW/kW	5.67		5.38		5.00		4.70		
		W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity	Model / Quantity	50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
		Model / Quantity	P15~P250/1~17		P15~P250/1~21		P15~P250/1~26		P15~P250/1~30		
Sound pressure level (measured in anechoic room)		*4	dB <A>	58.0 / 59.0		60.0 / 61.0		61.0 / 64.5		62.0 / 64.0	
Sound power level (measured in anechoic room)		*4	dB <A>	75.0 / 78.0		78.0 / 80.0		80.0 / 83.5		80.5 / 83.0	
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)		9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)		12.7 (1/2) Brazed		
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 2			
	Air flow rate	m³/min	170		185		240		270		
		L/s	2,833		3,083		4,000		4,500		
		cfm	6,003		6,532		8,474		9,534		
Compressor	Control, Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1		0.92 x 1		0.92 x 1		0.46 x 2		
	*5 External static press.	0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)			
	Type	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
Starting method	Inverter		Inverter		Inverter		Inverter				
	Motor output	kW	5.6		7.0		7.9		9.8		
	Case heater	kW	-		-		-		-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD			mm	1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740	
			in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
	Compressor	-		-		-		-			
Fan motor		-		-		-		-			
Refrigerant	Type x original charge	R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 9.8 kg (22 lbs)			
Net weight		kg (lbs)	225 (497)		225 (497)		228 (503)		278 (613)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C D.B. (68 °F D.B.), Outdoor: 7 °C D.B./6 °C W.B. (45 °F D.B./43 °F W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series

## PUHY-P YNW-A(-BS)



### Specifications

Model			PUHY-P400YNW-A (-BS)		PUHY-P450YNW-A (-BS)		PUHY-P500YNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)		*1	kW	45.0	50.0	56.0				
			BTU/h	153,500	170,600	191,100				
		Power input	kW	11.47	12.22	12.52				
		Current input	A	19.3-18.3-17.7	20.6-19.5-18.8	21.1-20.0-19.3				
		EER	kW/kW	3.92	4.09	4.47				
Temp. range of cooling		Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)				
		Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)				
Heating capacity (Max)		*2	kW	50.0	56.0	63.0				
			BTU/h	170,600	191,100	215,000				
		Power input	kW	13.40	13.42	14.61				
		Current input	A	22.6-21.4-20.7	22.6-21.5-20.7	24.6-23.4-22.5				
		COP	kW/kW	3.73	4.17	4.31				
(Nominal)		*3	kW	45.0	50.0	56.0				
			BTU/h	153,500	170,600	191,100				
		Power input	kW	10.15	10.89	11.53				
		Current input	A	17.1-16.2-15.6	18.3-17.4-16.8	19.4-18.4-17.8				
		COP	kW/kW	4.43	4.59	4.85				
Temp. range of heating		Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)				
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)				
Indoor unit connectable		Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
		Model / Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43		
Sound pressure level (measured in anechoic room)		*4	dB <A>	65.0 / 67.0		65.5 / 69.5		63.5 / 66.5		
Sound power level (measured in anechoic room)		*4	dB <A>	82.5 / 86.0		83.5 / 88.5		82.0 / 85.5		
Refrigerant piping diameter		Liquid pipe		mm (in.)		12.7 (1/2) Brazed		15.88 (5/8) Brazed		
		Gas pipe		mm (in.)		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
FAN		Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		
		Air flow rate		m³/min		300		305		
				L/s		5,000		5,083		
				cfm		10,593		10,770		
		Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
		Motor output		kW		0.46 x 2		0.46 x 2		
		External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		
Compressor		Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
		Starting method		Inverter		Inverter		Inverter		
		Motor output		kW		10.9		12.4		
		Case heater		kW		-		-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD			mm		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,750 x 740	
			in.		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16	
Protection devices		High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
		Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
		Compressor		-		-		-		
		Fan motor		-		-		-		
Refrigerant		Type x original charge		R410A x 9.8 kg (22 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		
Net weight		kg (lbs)		278 (613)		294 (649)		337 (743)		
Heat exchanger				Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Optional parts				Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P400YSNW-A (-BS)		PUHY-P450YSNW-A (-BS)		PUHY-P500YSNW-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	45.0		50.0		56.0	
		BTU/h	153,500		170,600		191,100	
		kW	8.77		10.22		11.91	
		Current input	A		14.8-14.0-13.5		17.2-16.3-15.7	
Temp. range of cooling	EER	kW/kW	5.13		4.89		4.70	
		Indoor	W.B. 15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)	
		Outdoor	D.B. -5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)	
Heating capacity (Max)	*2	kW	50.0		56.0		63.0	
		BTU/h	170,600		191,100		215,000	
		kW	9.45		10.85		12.45	
		Current input	A		15.9-15.1-14.6		18.3-17.4-16.7	
(Nominal)	COP	kW/kW	5.29		5.16		5.06	
		*3	45.0		50.0		56.0	
		BTU/h	153,500		170,600		191,100	
		Power input	kW		8.18		9.34	
Temp. range of heating	Current input	A	13.8-13.1-12.6		15.7-14.9-14.4		18.0-17.1-16.5	
		COP	kW/kW		5.50		5.35	
		Indoor	D.B. 15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)	
		Outdoor	W.B. -20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43	
Sound pressure level (measured in anechoic room)	*4	dB <A>	61.0 / 62.0		62.0 / 63.0		63.0 / 64.0	
Sound power level (measured in anechoic room)		dB <A>	78.0 / 81.0		80.0 / 82.0		81.0 / 83.0	
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		15.88(5/8) Brazed		15.88(5/8) Brazed	
	Gas pipe	mm (in.)	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		28.58(1-1/8) Brazed	
Set Model								
Model			PUHY-P200YNW-A (-BS)		PUHY-P200YNW-A (-BS)		PUHY-P200YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	170		170		185	
		L/s	2,833		2,833		3,083	
		cfm	6,003		6,003		6,532	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1		0.92 x 1		0.92 x 1	
		External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter		Inverter	
	Motor output	kW	5.6		5.6		7.0	
	Case heater	kW	-		-		-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD			mm		mm		mm	
			in.		in.		in.	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-		-	
	Fan motor		-		-		-	
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)	
Net weight	kg (lbs)		225 (497)		225 (497)		225 (497)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52(3/8) Brazed		9.52 (3/8) Brazed		9.52(3/8) Brazed	
	Gas pipe	mm (in.)	22.2(7/8) Brazed		22.2 (7/8) Brazed		22.2 (7/8) Brazed	
Optional parts								
Outdoor Twinning kit: CMY-Y100VBK3								
Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2								
Header: CMY-Y104/108/1010-G								

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P550YSNW-A (-BS)		PUHY-P600YSNW-A (-BS)		PUHY-P650YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	63.0		69.0		73.0		
		BTU/h	215,000		235,400		249,100		
		kW	14.15		16.26		17.59		
		Current input	A		23.8-22.6-21.8		27.4-26.0-25.1		
	EER	kW/kW	4.45		4.24		4.15		
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	69.0		76.5		81.5		
		BTU/h	235,400		261,000		278,100		
		kW	14.26		16.52		19.53		
	(Nominal)	*3	Current input	A		24.0-22.8-22.0		27.8-26.4-25.5	
			COP	kW/kW		4.83		4.63	
			kW	63.0		69.0		73.0	
	BTU/h	215,000		235,400		249,100			
	Power input	kW	12.54		14.21		15.66		
	Current input	A	21.1-20.1-19.3		23.9-22.7-21.9		26.4-25.1-24.2		
	COP	kW/kW	5.02		4.85		4.66		
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~47		P15~P250/2~50		P15~P250/2~50		
Sound pressure level (measured in anechoic room)	*4	dB <A>	63.5 / 66.0		64.0 / 67.5		66.5 / 68.0		
Sound power level (measured in anechoic room)	*4	dB <A>	82.0 / 85.0		83.0 / 86.5		84.0 / 87.0		
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88(5/8) Brazed		15.88(5/8) Brazed		15.88(5/8) Brazed		
	Gas pipe	mm (in.)	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		
Set Model									
Model			PUHY-P250YNW-A (-BS)		PUHY-P300YNW-A (-BS)		PUHY-P300YNW-A (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m <sup>3</sup> /min	185		240		240		
		L/s	3,083		4,000		4,000		
		cfm	6,532		8,474		8,474		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	*5	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	
		External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter		
	Motor output	kW	7.0	7.9	7.9	7.9	7.0	10.9	
	Case heater		kW	-	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD			mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	
			in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		-		
	Fan motor		-		-		-		
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 9.8 kg (22 lbs)	
Net weight	kg (lbs)		225 (497)	228 (508)	228 (503)	228 (503)	225 (490)	278 (613)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52(3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	12.7(1/2) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2(7/8) Brazed	22.2 (7/8) Brazed	22.2(7/8) Brazed	22.2 (7/8) Brazed	22.2(7/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts									
Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G									
Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G									
Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G									

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.



# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P700YSNW-A (-BS)		PUHY-P750YSNW-A (-BS)		PUHY-P800YSNW-A (-BS)								
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz								
Cooling capacity (Nominal)	*1	kW	80.0		85.0		90.0								
		BTU/h	273,000		290,000		307,100								
		kW	20.35		21.99		22.76								
		Current input	A		37.1-35.2-33.9		38.4-36.5-35.1								
EER	kW/kW	3.93		3.86		3.95									
		Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)							
		Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)							
Heating capacity (Max)	*2	kW	88.0		95.0		100.0								
		BTU/h	300,300		324,100		341,200								
		kW	21.15		24.54		24.39								
		Current input	A		41.4-39.3-37.9		41.1-39.1-37.7								
		COP	kW/kW		4.16		3.87		4.10						
(Nominal)	*3	kW	80.0		85.0		90.0								
		BTU/h	273,000		290,000		307,100								
		kW	17.53		19.22		19.99								
		Current input	A		32.4-30.8-29.7		33.7-32.0-30.9								
		COP	kW/kW		4.56		4.42		4.50						
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)								
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)								
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity								
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		P15~P250/2~50								
Sound pressure level (measured in anechoic room)	*4	dB <A>	65.0 / 67.0		67.0 / 68.5		67.5 / 71.0								
Sound power level (measured in anechoic room)	*4	dB <A>	83.5 / 86.0		84.5 / 88.0		85.5 / 89.5								
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		19.05 (3/4) Brazed								
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed								
Set Model															
Model			PUHY-P350YNW-A (-BS)		PUHY-P350YNW-A (-BS)		PUHY-P350YNW-A (-BS)		PUHY-P400YNW-A (-BS)		PUHY-P350YNW-A (-BS)		PUHY-P450YNW-A (-BS)		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		
	Air flow rate	m³/min	270		270		270		300		270		305		
			4,500		4,500		4,500		5,000		4,500		5,083		
			9,534		9,534		9,534		10,593		9,534		10,770		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	*5	Motor output	kW	0.46 x 2		0.46 x 2		0.46 x 2		0.46 x 2		0.46 x 2		0.46 x 2	
		External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		Inverter		Inverter		Inverter		Inverter		
	Motor output	kW	9.8		9.8		9.8		10.9		9.8		12.4		
	Case heater		kW		-		-		-		-		-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		
			in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				Over-heat protection, Over-current protection				
	Compressor		-				-				-				
	Fan motor		-				-				-				
Refrigerant	Type x original charge		R410A x 9.8 kg (22 lbs)		R410A x 9.8 kg (22 lbs)		R410A x 9.8 kg (22 lbs)		R410A x 9.8 kg (22 lbs)		R410A x 9.8 kg (22 lbs)		R410A x 10.8 kg (24 lbs)		
Net weight	kg (lbs)		278 (613)		278 (613)		278 (613)		278 (613)		278 (613)		294 (649)		
Heat exchanger			Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube				
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed		
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P850YSNW-A (-BS)		PUHY-P900YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	96.0		101.0		
		BTU/h	327,600		344,600		
	Power input	kW	24.66		25.44		
	Current input	A	41.6-39.5-38.1		42.9-40.7-39.3		
	EER	kW/kW	3.89		3.97		
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	108.0		113.0		
		BTU/h	368,500		385,600		
	Power input	kW	28.05		27.90		
	Current input	A	47.3-44.9-43.3		47.0-44.7-43.1		
	COP	kW/kW	3.85		4.05		
(Nominal)	*3	kW	96.0		101.0		
		BTU/h	327,600		344,600		
	Power input	kW	21.90		22.64		
	Current input	A	36.9-35.1-33.8		38.2-36.3-34.9		
	COP	kW/kW	4.38		4.46		
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~50		P15~P250/2~50		
Sound pressure level (measured in anechoic room)	*4	dB <A>	68.5 / 71.5		68.5 / 72.5		
Sound power level (measured in anechoic room)	*4	dB <A>	86.0 / 90.5		86.5 / 91.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed		
Set Model							
Model			PUHY-P400YNW-A (-BS)		PUHY-P450YNW-A (-BS)		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		
	Air flow rate	m³/min	300		305		
		L/s	5,000		5,083		
		cfm	10,593		10,770		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	*5	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2
		External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		
	Motor output	kW	10.9	12.4	12.4	12.4	
	Case heater	kW	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		
	Fan motor		-		-		
Refrigerant	Type x original charge		R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	
Net weight	kg (lbs)		278 (613)	294 (649)	294 (649)	294 (649)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB (45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P950YSNW-A (-BS)			PUHY-P1000YSNW-A (-BS)						
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz						
Cooling capacity (Nominal)		*1	kW	108.0			113.0					
			BTU/h	368,500			385,600					
		Power input	kW	26.13			27.74					
		Current input	A	44.1-41.9-40.3			46.8-44.4-42.8					
		EER	kW/kW	4.13			4.07					
Temp. range of cooling		Indoor	W.B.	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F)					
		Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)			-5.0~52.0 °C (23~126 °F)					
Heating capacity (Max)		*2	kW	119.5			127.0					
			BTU/h	407,700			433,300					
		Power input	kW	27.20			30.45					
		Current input	A	45.9-43.6-42.0			51.4-48.8-47.0					
		COP	kW/kW	4.39			4.17					
		(Nominal)	*3	kW	108.0			113.0				
				BTU/h	368,500			385,600				
Power input	kW		22.78			24.44						
Temp. range of heating		Indoor	D.B.	15.0~27.0 °C (59~81 °F)			15.0~27.0 °C (59~81 °F)					
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			-20.0~15.5 °C (-4~60 °F)					
		Indoor unit connectable			Total capacity			50~130% of outdoor unit capacity				
			Model / Quantity			P15~P250/2~50						
Sound pressure level (measured in anechoic room)			*4	dB <A>	66.0 / 68.0			68.0 / 69.5				
Sound power level (measured in anechoic room)			*4	dB <A>	84.5 / 87.0			85.5 / 88.5				
Refrigerant piping diameter		Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed					
		Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed					
Set Model												
Model			PUHY-P250YNW-A (-BS)		PUHY-P350YNW-A (-BS)		PUHY-P350YNW-A (-BS)		PUHY-P400YNW-A (-BS)			
FAN			Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2			
*5			Air flow rate		m³/min		185		270			
					L/s		3,083		4,500			
					cfm		6,532		9,534			
			Control, Driving mechanism		Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor			
			Motor output		kW		0.92 x 1		0.46 x 2		0.46 x 2	
Compressor			External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)			
			Type		Inverter scroll hermetic compressor				Inverter scroll hermetic compressor			
			Starting method		Inverter		Inverter		Inverter		Inverter	
			Motor output		kW		7.0		9.8		10.9	
			Case heater		kW		-		-		-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External dimension HxWxD			mm		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740			
			in.		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16			
Protection devices			High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
			Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
			Compressor		-				-			
			Fan motor		-				-			
Refrigerant			Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 9.8 kg (22 lbs)		R410A x 9.8 kg (22 lbs)			
Net weight			kg (lbs)		225 (497)		278 (613)		278 (613)			
Heat exchanger			Salt-resistant cross fin & copper tube				Salt-resistant cross fin & copper tube					
Pipe between unit and distributor			Liquid pipe		mm (in.)		9.52 (3/8) Brazed		12.7 (1/2) Brazed			
			Gas pipe		mm (in.)		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed			
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G					

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P1050YSNW-A (-BS)			PUHY-P1100YSNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	118.0			124.0			
		BTU/h	402,600			423,100			
	Power input	kW	29.35			31.87			
	Current input	A	49.5-47.0-45.3			53.8-51.1-49.2			
	EER	kW/kW	4.02			3.89			
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F)			
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)			-5.0~52.0 °C (23~126 °F)			
Heating capacity (Max)	*2	kW	132.0			140.0			
		BTU/h	450,400			477,700			
	Power input	kW	33.30			35.34			
	Current input	A	56.2-53.4-51.4			59.6-56.6-54.6			
	COP	kW/kW	3.96			3.96			
	(Nominal)	*3	kW	118.0			124.0		
			BTU/h	402,600			423,100		
Power input			kW	26.10			27.74		
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)			15.0~27.0 °C (59~81 °F)			
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			-20.0~15.5 °C (-4~60 °F)		
	Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity	P15~P250/3~50			P15~P250/3~50				
Sound pressure level (measured in anechoic room)	*4	dB <A>	68.5 / 70.5			68.5 / 70.0			
Sound power level (measured in anechoic room)	*4	dB <A>	86.0 / 89.5			86.0 / 88.0			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUHY-P250YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P350YNW-A (-BS)	PUHY-P400YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	185	300	300	270	270	300	
		L/s	3,083	5,000	5,000	4,500	4,500	5,000	
		cfm	6,532	10,593	10,593	9,534	9,534	10,593	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
	*5 External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.0	10.9	10.9	9.8	9.8	10.9	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
	Compressor		-	-	-	-	-	-	
	Fan motor		-	-	-	-	-	-	
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	
Net weight	kg (lbs)		225 (497)	278 (613)	278 (613)	278 (613)	278 (613)	278 (613)	
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB (45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C D.B., (68 °F D.B.), Outdoor: 7 °C D.B./6 °C W.B. (45 °F D.B./43 °F W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.



# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P1150YSNW-A (-BS)			PUHY-P1200YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	130.0			136.0		
		BTU/h	443,600			464,000		
	Power input	kW	33.82			35.69		
		Current input	A	57.0-54.2-52.2			60.2-57.2-55.1	
	EER	kW/kW		3.84			3.81	
Indoor		W.B.	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F)		
Outdoor		D.B.	-5.0~52.0 °C (23~126 °F)			-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	145.0			150.0		
		BTU/h	494,700			511,800		
	Power input	kW	38.32			41.42		
		Current input	A	64.6-61.4-59.2			69.9-66.4-64.0	
	(Nominal)	*3	COP	3.78			3.62	
kW/kW			4.38			4.30		
Indoor		D.B.	15.0~27.0 °C (59~81 °F)			15.0~27.0 °C (59~81 °F)		
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			-20.0~15.5 °C (-4~60 °F)	
Indoor unit connectable		Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
		Model / Quantity	P15~P250/3~50			P15~P250/3~50		
Sound pressure level (measured in anechoic room)		*4	dB <A>			dB <A>		
			69.0 / 71.0			70.0 / 72.0		
Sound power level (measured in anechoic room)		*4	dB <A>			dB <A>		
			86.5 / 90.0			87.5 / 91.0		
Refrigerant piping diameter		Liquid pipe	mm (in.)			mm (in.)		
		Gas pipe	mm (in.)			mm (in.)		
			19.05(3/4) Brazed			19.05(3/4) Brazed		
			41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P350YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	270	300	300	300	300	300
		L/s	4,500	5,000	5,000	5,000	5,000	5,000
		cfm	9,534	10,593	10,593	10,593	10,593	10,593
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	*5	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2
		External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)
Compressor	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	9.8	10.9	10.9	10.9	10.9	
	Case heater		kW	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		-	-	-	-	-	
	Fan motor		-	-	-	-	-	
Refrigerant	Type x original charge		R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)
Net weight	kg (lbs)		278 (613)	278 (613)	278 (613)	278 (613)	278 (613)	278 (613)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit	Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
and distributor	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B., (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P1250YSNW-A (-BS)			PUHY-P1300YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	140.0			146.0		
		BTU/h	477,700			498,200		
	Power input	kW	36.17			37.24		
	Current input	A	61.0-58.0-55.9			62.8-59.7-57.5		
	EER	kW/kW	3.87			3.92		
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)			-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	156.5			163.0		
		BTU/h	534,000			556,200		
	Power input	kW	41.40			41.55		
	Current input	A	69.8-66.3-63.9			70.1-66.6-64.2		
	COP	kW/kW	3.78			3.92		
(Nominal)	*3	kW	140.0			146.0		
		BTU/h	477,700			498,200		
	Power input	kW	32.11			33.10		
	Current input	A	54.2-51.4-49.6			55.8-53.0-51.1		
	COP	kW/kW	4.36			4.41		
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)			15.0~27.0 °C (59~81 °F)		
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/3~50			P15~P250/3~50		
Sound pressure level (measured in anechoic room)	*4	dB <A>	70.0 / 73.0			70.0 / 73.5		
Sound power level (measured in anechoic room)	*4	dB <A>	87.5 / 92.0			88.0 / 92.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed		
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model								
Model			PUHY-P400YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P400YNW-A (-BS)	PUHY-P450YNW-A (-BS)	PUHY-P450YNW-A (-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2
	Air flow rate	m³/min	300	300	305	300	305	305
		L/s	5,000	5,000	5,083	5,000	5,083	5,083
		cfm	10,593	10,593	10,770	10,593	10,770	10,770
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2
	*5 External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
Compressor	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	10.9	10.9	12.4	10.9	12.4	12.4
	Case heater	kW	-	-	-	-	-	-
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		-	-	-	-	-	-
	Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)
Net weight	kg (lbs)		278 (613)	278 (613)	294 (649)	278 (613)	294 (649)	294 (649)
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB (45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C D.B., (68 °F D.B.), Outdoor: 7 °C D.B./6 °C W.B. (45 °F D.B./43 °F W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series

## PUHY-P YSNW-A(-BS)



### Specifications

Model			PUHY-P1350YSNW-A (-BS)						
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz						
Cooling capacity (Nominal)	*1	kW	150.0						
		BTU/h	511,800						
	Power input	kW	37.78						
	Current input	A	63.7-60.5-58.3						
	EER	kW/kW	3.97						
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)						
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)						
Heating capacity (Max)	*2	kW	168.0						
		BTU/h	573,200						
	Power input	kW	41.40						
	Current input	A	69.8-66.3-63.9						
	COP	kW/kW	4.05						
	(Nominal)	*3	kW	150.0					
		BTU/h	511,800						
		Power input	kW	33.63					
		Current input	A	56.7-53.9-51.9					
COP	kW/kW	4.46							
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)						
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)						
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity						
	Model / Quantity		P15~P250/3~50						
Sound pressure level (measured in anechoic room)		*4	dB <A>	70.5 / 74.5					
Sound power level (measured in anechoic room)		*4	dB <A>	88.5 / 93.5					
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05(3/4) Brazed						
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed						
Set Model									
Model			PUHY-P450YNW-A (-BS)		PUHY-P450YNW-A (-BS)		PUHY-P450YNW-A (-BS)		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		
	Air flow rate	m³/min	305		305		305		
		L/s	5,083		5,083		5,083		
		cfm	10,770		10,770		10,770		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor						
	Motor output	kW	0.46 x 2		0.46 x 2		0.46 x 2		
	*5	External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
		Type		Inverter scroll hermetic compressor					
Compressor	Starting method		Inverter		Inverter		Inverter		
	Motor output	kW	12.4		12.4		12.4		
	Case heater	kW	-		-		-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		-		
	Fan motor		-		-		-		
Refrigerant	Type x original charge		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		
Net weight	kg (lbs)		294 (649)		294 (649)		294 (649)		
Heat exchanger			Salt-resistant cross fin & copper tube						
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed		
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G						

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YNW-A(-BS)



### Specifications

Model			PUHY-EP200YNW-A (-BS)		PUHY-EP250YNW-A (-BS)		PUHY-EP300YNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	22.4		28.0		33.5		
		BTU/h	76,400		95,500		114,300		
	Power input	kW	4.00		5.49		6.96		
	Current input	A	6.7-6.4-6.1		9.2-8.8-8.4		11.7-11.1-10.7		
	EER	kW/kW	5.60		5.10		4.81		
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	25.0		31.5		37.5		
		BTU/h	85,300		107,500		128,000		
		Power input	kW	4.50		5.86		7.51	
		Current input	A	7.5-7.2-6.9		9.8-9.3-9.0		12.6-12.0-11.6	
	(Nominal)	COP	kW/kW	5.55		5.37		4.99	
		*3	kW	22.4		28.0		33.5	
			BTU/h	76,400		95,500		114,300	
		Power input	kW	3.86		5.06		6.25	
		Current input	A	6.5-6.1-5.9		8.5-8.1-7.8		10.5-10.0-9.6	
		COP	kW/kW	5.80		5.53		5.36	
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15-P250/1~17		P15-P250/1~21		P15-P250/1~26		
Sound pressure level (measured in anechoic room)	*4	dB <A>	58.0 / 59.0		60.0 / 61.0		61.0 / 64.5		
Sound power level (measured in anechoic room)	*4	dB <A>	75.0 / 78.0		78.0 / 80.0		80.0 / 83.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)		9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)		
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	170		185		240		
		L/s	2,833		3,083		4,000		
		cfm	6,003		6,532		8,474		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	*5	Motor output	kW	0.92 x 1		0.92 x 1		0.92 x 1	
		External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
	Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
Starting method		Inverter		Inverter		Inverter			
Motor output		kW	5.6		7.0		7.9		
		Case heater	kW	-		-		-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		-		
	Fan motor		-		-		-		
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		
Net weight	kg (lbs)		231 (510)		231 (510)		235 (519)		
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		
Optional parts			Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.



# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YNW-A(-BS)



### Specifications

Model			PUHY-EP350YNW-A (-BS)		PUHY-EP400YNW-A (-BS)		PUHY-EP450YNW-A (-BS)		PUHY-EP500YNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	40.0		45.0		50.0		56.0			
		BTU/h	136,500		153,500		170,600		191,100			
	Power input	kW		8.75		10.46		11.10		12.41		
	Current input	A		14.7-14.0-13.5		17.6-16.7-16.1		18.7-17.8-17.1		20.9-19.9-19.1		
	EER	kW/kW		4.57		4.30		4.50		4.51		
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)			
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)			
Heating capacity (Max)	*2	kW	45.0		50.0		56.0		63.0			
		BTU/h	153,500		170,600		191,100		215,000			
	Power input	kW		9.86		12.40		13.02		13.57		
	Current input	A		16.6-15.8-15.2		20.9-19.8-19.1		21.9-20.8-20.1		22.9-21.7-20.9		
	COP	kW/kW		4.56		4.03		4.30		4.64		
	(Nominal)	*3	kW	40.0		45.0		50.0		56.0		
		BTU/h	136,500		153,500		170,600		191,100			
		Power input	kW		8.26		9.69		10.46		11.24	
		Current input	A		13.9-13.2-12.7		16.3-15.5-14.9		17.6-16.7-16.1		18.9-18.0-17.3	
		COP	kW/kW		4.84		4.64		4.78		4.98	
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)			
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/1~30		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43			
Sound pressure level (measured in anechoic room)		*4	dB <A>	62.0 / 63.5		65.0 / 65.5		65.5 / 69.5		63.5 / 66.5		
Sound power level (measured in anechoic room)		*4	dB <A>	80.5 / 82.5		82.5 / 84.5		83.5 / 88.5		82.0 / 85.5		
Refrigerant piping diameter	Liquid pipe		mm (in.)	12.7 (1/2) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed		
	Gas pipe		mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2			
	Air flow rate	m³/min	270		270		305		365			
		L/s	4,500		4,500		5,083		6,083			
		cfm	9,534		9,534		10,770		12,888			
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor			
	Motor output		kW		0.46 x 2		0.46 x 2		0.92 x 2			
	*5 External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)			
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor			
	Starting method		Inverter		Inverter		Inverter		Inverter			
	Motor output		kW		9.8		10.9		12.4			
	Case heater		kW		-		-		-			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD			mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,750 x 740		
			in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection			
	Compressor		-		-		-		-			
	Fan motor		-		-		-		-			
Refrigerant	Type x original charge		R410A x 9.8 kg (22 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)			
Net weight			kg (lbs)		285 (629) 305 (673)		305 (673)		342 (754)			
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube			
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010-G			

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP400YSNW-A (-BS)		PUHY-EP450YSNW-A (-BS)		PUHY-EP500YSNW-A (-BS)									
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz									
Cooling capacity (Nominal)		*1	kW	45.0	50.0		56.0									
			BTU/h	153,500	170,600		191,100									
			kW	8.27	9.67		11.31									
			A	13.9-13.2-12.7	16.3-15.5-14.9		19.0-18.1-17.4									
EER		kW/kW	5.44	5.17		4.95										
		Temp. range of cooling		Indoor	W.B.	15.0~24.0 °C (59~75 °F)	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)							
				Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)							
Heating capacity (Max)		*2	kW	50.0	56.0		63.0									
			BTU/h	170,600	191,100		215,000									
			kW	9.27	10.58		12.09									
			A	15.6-14.8-14.3	17.8-16.9-16.3		20.4-19.3-18.6									
		COP		kW/kW	5.39	5.29		5.21								
		(Nominal)		*3	kW	45.0	50.0		56.0							
					BTU/h	153,500	170,600		191,100							
					kW	7.99	9.10		10.42							
			A	13.4-12.8-12.3	15.3-14.5-14.0		17.5-16.7-16.1									
COP		kW/kW	5.63	5.49		5.37										
Temp. range of heating		Indoor	D.B.	15.0~27.0 °C (59~81 °F)	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)									
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)									
Indoor unit connectable		Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity								
		Model / Quantity		P15~P250/1~34		P15~P250/1~39		P15~P250/1~43								
Sound pressure level (measured in anechoic room)		*4	dB <A>	61.0 / 62.0		62.0 / 63.0		63.0 / 64.0								
Sound power level (measured in anechoic room)		*4	dB <A>	78.0 / 81.0		80.0 / 82.0		81.0 / 83.0								
Refrigerant piping diameter		Liquid pipe	mm (in.)	12.7 (1/2) Brazed		15.88(5/8) Brazed		15.88(5/8) Brazed								
		Gas pipe	mm (in.)	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		28.58(1-1/8) Brazed								
Set Model																
Model			PUHY-EP200YNNW-A (-BS)		PUHY-EP200YNNW-A (-BS)		PUHY-EP200YNNW-A (-BS)		PUHY-EP250YNNW-A (-BS)		PUHY-EP250YNNW-A (-BS)					
FAN			Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1					
			Air flow rate		m <sup>3</sup> /min	170		170		170		185				
					L/s	2,833		2,833		2,833		3,083				
					cfm	6,003		6,003		6,003		6,532				
			Control, Driving mechanism		Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor			
			Motor output		kW		0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1			
*5 External static press.			0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)					
Compressor			Type		Inverter scroll hermetic compressor				Inverter scroll hermetic compressor							
			Starting method		Inverter				Inverter							
			Motor output		kW		5.6		5.6		5.6		7.0			
			Case heater		kW		-		-		-		-			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External dimension HxWxD			mm		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740					
					73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16					
Protection devices			High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)							
			Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection							
			Compressor		-				-							
			Fan motor		-				-							
Refrigerant			Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)					
Net weight			kg (lbs)		231 (510)		231 (510)		231 (510)		231 (510)					
Heat exchanger			Salt-resistant cross fin & aluminium tube				Salt-resistant cross fin & aluminium tube				Salt-resistant cross fin & aluminium tube					
Pipe between unit and distributor			Liquid pipe		mm (in.)		9.52(3/8) Brazed		9.52 (3/8) Brazed		9.52(3/8) Brazed					
			Gas pipe		mm (in.)		22.2(7/8) Brazed		22.2 (7/8) Brazed		22.2(7/8) Brazed					
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G					

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP550YSNW-A (-BS)		PUHY-EP600YSNW-A (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	63.0		69.0		
		BTU/h	215,000		235,400		
	Power input	kW	13.10		14.75		
	Current input	A	22.1-21.0-20.2		24.9-23.6-22.8		
	EER	kW/kW	4.80		4.67		
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)		
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)	*2	kW	69.0		76.5		
		BTU/h	235,400		261,000		
	Power input	kW	13.77		15.79		
	Current input	A	23.2-22.0-21.2		26.6-25.3-24.4		
	COP	kW/kW	5.01		4.84		
	(Nominal)	*3	kW	63.0		69.0	
			BTU/h	215,000		235,400	
		Power input	kW	11.93		13.26	
		Current input	A	20.1-19.1-18.4		22.3-21.2-20.4	
COP	kW/kW	5.28		5.20			
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)		
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity		
	Model / Quantity		P15~P250/2~47		P15~P250/2~50		
Sound pressure level (measured in anechoic room)		*4	dB <A>		63.5 / 66.0		
Sound power level (measured in anechoic room)		*4	dB <A>		82.0 / 85.0		
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88(5/8) Brazed		15.88(5/8) Brazed		
	Gas pipe	mm (in.)	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		
Set Model							
Model			PUHY-EP250YNW-A (-BS)		PUHY-EP300YNW-A (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m³/min	185		240		
		L/s	3,083		4,000		
		cfm	6,532		8,474		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1		0.92 x 1		
	*5 External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method		Inverter		Inverter		
	Motor output	kW	7.0		7.9		
	Case heater	kW	-		-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension HxWxD		mm	1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 920 x 740		
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		
	Fan motor		-		-		
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 6.5 kg (15 lbs)		
Net weight	kg (lbs)		231 (510)		235 (519)		
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52(3/8) Brazed		12.7 (1/2) Brazed		
	Gas pipe	mm (in.)	22.2(7/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP650YSNW-A (-BS)		PUHY-EP700YSNW-A (-BS)					
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz					
Cooling capacity (Nominal)	*1	kW	73.0		80.0					
		BTU/h	249,100		273,000					
	Power input	kW	16.32		18.00					
	Current input	A	27.5-26.1-25.2		30.3-28.8-27.8					
	EER	kW/kW	4.47		4.44					
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)					
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)					
Heating capacity (Max)	*2	kW	81.5		88.0					
		BTU/h	278,100		300,300					
	Power input	kW	18.47		19.85					
	Current input	A	31.1-29.6-28.5		33.5-31.8-30.6					
	COP	kW/kW	4.41		4.43					
	(Nominal)	*3	kW	73.0		80.0				
			BTU/h	249,100		273,000				
Power input		kW	15.08		17.02					
Current input	A	25.4-24.1-23.3		28.7-27.2-26.3						
COP	kW/kW	4.84		4.70						
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)					
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)					
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity					
	Model / Quantity		P15~P250/2~50		P15~P250/2~50					
Sound pressure level (measured in anechoic room)		*4 dB <A>	66.5 / 67.0		65.0 / 66.5					
Sound power level (measured in anechoic room)		*4 dB <A>	84.0 / 86.0		83.5 / 85.5					
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88(5/8) Brazed		19.05 (3/4) Brazed					
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		34.93 (1-3/8) Brazed					
Set Model										
Model			PUHY-EP250YNW-A (-BS)		PUHY-EP400YNW-A (-BS)		PUHY-EP350YNW-A (-BS)		PUHY-EP350YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m³/min	185		270		270		270	
		L/s	3,083		4,500		4,500		4,500	
		cfm	6,532		9,534		9,534		9,534	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1		0.46 x 2		0.46 x 2		0.46 x 2	
	*5 External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
Compressor	Type		Inverter scroll hermetic compressor				Inverter scroll hermetic compressor			
	Starting method		Inverter		Inverter		Inverter		Inverter	
	Motor output	kW	7.0		10.9		9.8		9.8	
Case heater		kW	-				-			
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) ~MUNSELL 5Y 8/1 or similar~				Pre-coated galvanized steel sheets (+powder coating for -BS type) ~MUNSELL 5Y 8/1 or similar~			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 920 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
	Compressor		-		-		-		-	
	Fan motor		-		-		-		-	
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 9.8 kg (22 lbs)		R410A x 9.8 kg (22 lbs)	
Net weight	kg (lbs)		231 (510)		305 (673)		285 (629)		285 (629)	
Heat exchanger			Salt-resistant cross fin & aluminium tube				Salt-resistant cross fin & aluminium tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed		12.7 (1/2) Brazed		12.7 (1/2) Brazed		12.7 (1/2) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y100VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.



# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP750YSNW-A (-BS)		PUHY-EP800YSNW-A (-BS)					
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz					
Cooling capacity (Nominal)	*1	kW	85.0		90.0					
		BTU/h	290,000		307,100					
	Power input	kW	19.75		20.45					
	Current input	A	33.3-31.6-30.5		34.5-32.7-31.6					
	EER	kW/kW	4.30		4.40					
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)					
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)					
Heating capacity (Max)	*2	kW	95.0		100.0					
		BTU/h	324,100		341,200					
	Power input	kW	22.88		23.30					
	Current input	A	38.6-36.6-35.3		39.3-37.3-36.0					
	COP	kW/kW	4.15		4.29					
	(Nominal)	*3	kW	85.0		90.0				
			BTU/h	290,000		307,100				
Power input		kW	18.47		19.27					
Current input	A	31.1-29.6-28.5		32.5-30.9-29.7						
COP	kW/kW	4.60		4.67						
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)					
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)					
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity					
	Model / Quantity		P15~P250/2~50		P15~P250/2~50					
Sound pressure level (measured in anechoic room)	*4	dB <A>	67.0 / 67.5		67.5 / 70.5					
Sound power level (measured in anechoic room)	*4	dB <A>	84.5 / 86.5		85.5 / 89.5					
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed					
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed		34.93 (1-3/8) Brazed					
Set Model										
Model			PUHY-EP350YNW-A (-BS)		PUHY-EP400YNW-A (-BS)		PUHY-EP350YNW-A (-BS)		PUHY-EP450YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m³/min	270		270		270		305	
		L/s	4,500		4,500		4,500		5,083	
		cfm	9,534		9,534		9,534		10,770	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor				Inverter-control, Direct-driven by motor			
	Motor output	kW	0.46 x 2		0.46 x 2		0.46 x 2		0.46 x 2	
	*5 External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
Compressor	Type		Inverter scroll hermetic compressor				Inverter scroll hermetic compressor			
	Starting method		Inverter		Inverter		Inverter		Inverter	
	Motor output	kW	9.8		10.9		9.8		12.4	
Case heater		kW	-		-		-		-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection				Over-heat protection, Over-current protection			
	Compressor		-				-			
	Fan motor		-				-			
Refrigerant	Type x original charge		R410A x 9.8 kg (22 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 9.8 kg (22 lbs)		R410A x 10.8 kg (24 lbs)	
Net weight	kg (lbs)		285 (629)		305 (673)		285 (629)		305 (673)	
Heat exchanger			Salt-resistant cross fin & aluminium tube				Salt-resistant cross fin & aluminium tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	12.7 (1/2) Brazed		15.88 (5/8) Brazed		12.7 (1/2) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G				Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G			

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB/45°F DB/43°F WB	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C D.B. (68 °F D.B.), Outdoor: 7 °C D.B./6 °C W.B. (45 °F D.B./43 °F W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP850YSNW-A (-BS)		PUHY-EP900YSNW-A (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	96.0		101.0	
		BTU/h	327,600		344,600	
	Power input	kW	22.40		23.10	
	Current input	A	37.8-35.9-34.6		38.9-37.0-35.7	
	EER	kW/kW	4.28		4.37	
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)		15.0~24.0 °C (59~75 °F)	
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)		-5.0~52.0 °C (23~126 °F)	
Heating capacity (Max)	*2	kW	108.0		113.0	
		BTU/h	368,500		385,600	
	Power input	kW	26.66		27.07	
	Current input	A	45.0-42.7-41.2		45.6-43.4-41.8	
	COP	kW/kW	4.05		4.17	
(Nominal)	*3	kW	96.0		101.0	
		BTU/h	327,600		344,600	
	Power input	kW	20.96		21.76	
	Current input	A	35.3-33.6-32.3		36.7-34.8-33.6	
	COP	kW/kW	4.58		4.64	
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)		15.0~27.0 °C (59~81 °F)	
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)		-20.0~15.5 °C (-4~60 °F)	
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity		50~130% of outdoor unit capacity	
	Model / Quantity		P15~P250/2~50		P15~P250/2~50	
Sound pressure level (measured in anechoic room)	*4	dB <A>	68.5 / 71.0		68.5 / 72.5	
Sound power level (measured in anechoic room)	*4	dB <A>	86.0 / 90.0		86.5 / 91.5	
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed	
Set Model						
Model			PUHY-EP400YNW-A (-BS)		PUHY-EP450YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m³/min	270		305	
		L/s	4,500		5,083	
		cfm	9,534		10,770	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.46 x 2		0.46 x 2	
	*5 External static press.		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter	
	Motor output	kW	10.9		12.4	
	Case heater	kW	-		-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP/FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)	
Net weight	kg (lbs)		305 (673)		305 (673)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G		Outdoor Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010-G	

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB (45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP950YSNW-A (-BS)			PUHY-EP1000YSNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	108.0			113.0			
		BTU/h	368,500			385,600			
	Power input	kW	23.62			25.33			
	Current input	A	39.8-37.8-36.5			42.7-40.6-39.1			
	EER	kW/kW	4.57			4.46			
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F)			
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)			-5.0~52.0 °C (23~126 °F)			
Heating capacity (Max)	*2	kW	119.5			127.0			
		BTU/h	407,700			433,300			
	Power input	kW	25.79			28.70			
	Current input	A	43.5-41.3-39.8			48.4-46.0-44.3			
	COP	kW/kW	4.63			4.42			
	(Nominal)	*3	kW	108.0			113.0		
			BTU/h	368,500			385,600		
Power input		kW	22.13			23.59			
Current input	A	37.3-35.4-34.2			39.8-37.8-36.4				
COP	kW/kW	4.88			4.79				
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)			15.0~27.0 °C (59~81 °F)			
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			-20.0~15.5 °C (-4~60 °F)			
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity			50~130% of outdoor unit capacity				
	Model / Quantity	P15~P250/2~50			P15~P250/2~50				
Sound pressure level (measured in anechoic room)	*4	dB <A>	66.0 / 67.5			68.0 / 68.5			
Sound power level (measured in anechoic room)	*4	dB <A>	84.5 / 86.5			85.5 / 87.5			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUHY-EP250YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP250YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	185	270	270	185	270	270	
		L/s	3,083	4,500	4,500	3,083	4,500	4,500	
		cfm	6,532	9,534	9,534	6,532	9,534	9,534	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output	kW	0.92 x 1	0.46 x 2	0.46 x 2	0.92 x 1	0.46 x 2	0.46 x 2	
	External static press.		0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
	Compressor	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
Starting method			Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
Motor output		kW	7.0	9.8	9.8	7.0	9.8	10.9	
Case heater		kW	-	-	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
	Compressor		-	-	-	-	-	-	
	Fan motor		-	-	-	-	-	-	
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 6.5 kg (15 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	
Net weight	kg (lbs)		231 (510)	285 (629)	285 (629)	231 (510)	285 (629)	305 (673)	
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	9.52 (3/8) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C D.B. (68 °F D.B.), Outdoor: 7 °C D.B./6 °C W.B. (45 °F D.B./43 °F W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP1050YSNW-A (-BS)			PUHY-EP1100YSNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)		*1	kW	118.0			124.0		
			BTU/h	402,600			423,100		
			Power input	kW			27.05		
			Current input	A			45.6-43.3-41.8		
			EER	kW/kW			4.36		
Temp. range of cooling		Indoor	W.B.	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F)		
		Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)			-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)		*2	kW	132.0			140.0		
			BTU/h	450,400			477,700		
			Power input	kW			31.26		
			Current input	A			52.7-50.1-48.3		
			COP	kW/kW			4.22		
(Nominal)		*3	kW	118.0			124.0		
			BTU/h	402,600			423,100		
			Power input	kW			25.05		
			Current input	A			42.2-40.1-38.7		
			COP	kW/kW			4.71		
Temp. range of heating		Indoor	D.B.	15.0~27.0 °C (59~81 °F)			15.0~27.0 °C (59~81 °F)		
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable		Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
		Model / Quantity		P15~P250/3~50			P15~P250/3~50		
Sound pressure level (measured in anechoic room)		*4	dB <A>	68.5 / 69.0			68.5 / 69.0		
Sound power level (measured in anechoic room)		*4	dB <A>	86.0 / 88.0			86.0 / 89.0		
Refrigerant piping diameter		Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed		
		Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model									
Model			PUHY-EP250YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	185	270	270	270	270	270	
		L/s	3,083	4,500	4,500	4,500	4,500	4,500	
		cfm	6,532	9,534	9,534	9,534	9,534	9,534	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	Motor output		kW	0.92 x 1	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
	External static press.			0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	
Compressor	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	7.0	10.9	10.9	9.8	9.8	10.9	
	Case heater	kW	-	-	-	-	-	-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 920 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	
		in.	73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
Protection devices		High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
		Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
		Compressor		-	-	-	-	-	-
		Fan motor		-	-	-	-	-	-
Refrigerant	Type x original charge		R410A x 6.5 kg (15 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	
Net weight	kg (lbs)		231 (510)	305 (673)	305 (673)	285 (629)	285 (629)	305 (673)	
Heat exchanger		Salt-resistant cross fin & aluminium tube							
Pipe between unit and distributor	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	12.7 (1/2) Brazed	12.7 (1/2) Brazed	15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	22.2 (7/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C.D.B. (68 °F.D.B.), Outdoor: 7 °C.D.B./6 °C.W.B. (45 °F.D.B./43 °F.W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.



# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP1150YSNW-A (-BS)			PUHY-EP1200YSNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)		*1	kW	130.0			136.0		
			BTU/h	443,600			464,000		
		Power input	kW	30.56			32.58		
		Current input	A	51.5-49.0-47.2			55.0-52.2-50.3		
		EER	kW/kW	4.25			4.17		
Temp. range of cooling		Indoor	W.B.	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F)		
		Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)			-5.0~52.0 °C (23~126 °F)		
Heating capacity (Max)		*2	kW	145.0			150.0		
			BTU/h	494,700			511,800		
		Power input	kW	35.60			38.34		
		Current input	A	60.0-57.0-55.0			64.7-61.4-59.2		
		COP	kW/kW	4.07			3.91		
(Nominal)		*3	kW	130.0			136.0		
			BTU/h	443,600			464,000		
		Power input	kW	28.50			30.22		
		Current input	A	48.1-45.7-44.0			51.0-48.4-46.7		
		COP	kW/kW	4.56			4.50		
Temp. range of heating		Indoor	D.B.	15.0~27.0 °C (59~81 °F)			15.0~27.0 °C (59~81 °F)		
		Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			-20.0~15.5 °C (-4~60 °F)		
Indoor unit connectable		Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity		
		Model / Quantity		P15~P250/3~50			P15~P250/3~50		
Sound pressure level (measured in anechoic room)		*4	dB <A>	69.0 / 69.5			70.0 / 70.5		
Sound power level (measured in anechoic room)		*4	dB <A>	86.5 / 88.5			87.5 / 89.5		
Refrigerant piping diameter		Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed		
		Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed		
Set Model									
Model			PUHY-EP350YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Air flow rate	m³/min	270	270	270	270	270	270	
		L/s	4,500	4,500	4,500	4,500	4,500	4,500	
		cfm	9,534	9,534	9,534	9,534	9,534	9,534	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
*5	Motor output	kW	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	0.46 x 2	
	External static press.		0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	0 Pa (0 mmH <sub>2</sub> O)	
	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
	Starting method		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	9.8	10.9	10.9	10.9	10.9	10.9	
External finish	Case heater		kW	-	-	-	-	-	
			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
	External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740	
			in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	
	Protection devices		High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
Inverter circuit (COMP./FAN)			Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
Compressor			-			-			
Fan motor			-			-			
Refrigerant		Type x original charge		R410A x 9.8 kg (22 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	R410A x 10.8 kg (24 lbs)	
Net weight		kg (lbs)		285 (629)	305 (673)	305 (673)	305 (673)	305 (673)	
Heat exchanger				Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
Pipe between unit and distributor		Liquid pipe	mm (in.)	12.7 (1/2) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	15.88 (5/8) Brazed	
		Gas pipe	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	
Optional parts				Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G		

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB/45°F DB/43°F WB	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C D.B., (68 °F D.B.), Outdoor: 7 °C D.B./6 °C W.B., (45 °F D.B./43 °F W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP1250YSNW-A (-BS)			PUHY-EP1300YSNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	140.0			146.0			
		BTU/h	477,700			498,200			
	Power input	kW	32.98			33.85			
	Current input	A	55.6-52.8-50.9			57.1-54.2-52.3			
	EER	kW/kW	4.24			4.31			
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)			15.0~24.0 °C (59~75 °F)			
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)			-5.0~52.0 °C (23~126 °F)			
Heating capacity (Max)	*2	kW	156.5			163.0			
		BTU/h	534,000			556,200			
	Power input	kW	39.00			39.81			
	Current input	A	65.8-62.5-60.2			67.2-63.8-61.5			
	COP	kW/kW	4.01			4.09			
(Nominal)	*3	kW	140.0			146.0			
		BTU/h	477,700			498,200			
	Power input	kW	30.76			31.71			
	Current input	A	51.9-49.3-47.5			53.5-50.8-49.0			
	COP	kW/kW	4.55			4.60			
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)			15.0~27.0 °C (59~81 °F)			
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			-20.0~15.5 °C (-4~60 °F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/3~50			P15~P250/3~50			
Sound pressure level (measured in anechoic room)	*4	dB <A>	70.0 / 72.0			70.0 / 73.5			
Sound power level (measured in anechoic room)	*4	dB <A>	87.5 / 91.0			88.0 / 92.5			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05(3/4) Brazed			19.05(3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			41.28 (1-5/8) Brazed			
Set Model									
Model			PUHY-EP400YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	PUHY-EP400YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	PUHY-EP450YNW-A (-BS)	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2		
	Air flow rate	m³/min	270		305		305		
		L/s	4,500		5,083		5,083		
		cfm	9,534		10,770		10,770		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor			
	*5	Motor output	kW	0.46 x 2		0.46 x 2		0.46 x 2	
		External static press.		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)		0 Pa (0 mmH <sub>2</sub> O)	
Compressor	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor			
	Starting method		Inverter		Inverter		Inverter		
	Motor output	kW	10.9		12.4		12.4		
	Case heater	kW	-		-		-		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740		
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection			
	Compressor		-			-			
	Fan motor		-			-			
Refrigerant	Type x original charge		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)		
Net weight	kg (lbs)		305 (673)		305 (673)		305 (673)		
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed		
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

#### Notes:

\*1, \*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB/68°F DB	7°C DB/6°C WB (45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °C D.B., (68 °F D.B.), Outdoor: 7 °C D.B./6 °C W.B. (45 °F D.B./43 °F W.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OUTDOOR UNIT Y Series - High efficiency

## PUHY-EP YSNW-A(-BS)



### Specifications

Model			PUHY-EP1350YSNW-A (-BS)			
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	150.0			
		BTU/h	511,800			
	Power input	kW	34.30			
	Current input	A	57.9-55.0-53.0			
	EER	kW/kW	4.37			
Temp. range of cooling	Indoor	W.B.	15.0~24.0 °C (59~75 °F)			
	Outdoor	D.B.	-5.0~52.0 °C (23~126 °F)			
Heating capacity (Max)	*2	kW	168.0			
		BTU/h	573,200			
	Power input	kW	40.24			
	Current input	A	67.9-64.5-62.2			
	COP	kW/kW	4.17			
	(Nominal)	*3	kW	150.0		
		BTU/h	511,800			
		Power input	kW	32.32		
		Current input	A	54.5-51.8-49.9		
COP	kW/kW	4.64				
Temp. range of heating	Indoor	D.B.	15.0~27.0 °C (59~81 °F)			
	Outdoor	W.B.	-20.0~15.5 °C (-4~60 °F)			
Indoor unit connectable	Total capacity		50~130% of outdoor unit capacity			
	Model / Quantity		P15~P250/3~50			
Sound pressure level (measured in anechoic room)	*4	dB <A>	70.5 / 74.5			
Sound power level (measured in anechoic room)	*4	dB <A>	88.5 / 93.5			
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05(3/4) Brazed			
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed			
Set Model						
Model			PUHY-EP450YNW-A (-BS)		PUHY-EP450YNW-A (-BS)	PUHY-EP450YNW-A (-BS)
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Air flow rate	m³/min	305		305	
		L/s	5,083		5,083	
		cfm	10,770		10,770	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			
	Motor output	kW	0.46 x 2		0.46 x 2	
	*5	External static press.	0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
Compressor	Type		Inverter scroll hermetic compressor			
	Starting method		Inverter		Inverter	
	Motor output	kW	12.4		12.4	
	Case heater	kW	-		-	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension HxWxD		mm	1,858 (1,798 without legs) x 1,240 x 740		1,858 (1,798 without legs) x 1,240 x 740	1,858 (1,798 without legs) x 1,240 x 740
		in.	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16		73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16	73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			
	Compressor		-		-	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 10.8 kg (24 lbs)		R410A x 10.8 kg (24 lbs)	
Net weight	kg (lbs)		305 (673)		305 (673)	
Heat exchanger			Salt-resistant cross fin & aluminium tube			
Pipe between unit and distributor	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed	
Optional parts			Outdoor Twinning kit: CMY-Y300VBK3 Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2 Header: CMY-Y104/108/1010-G			

#### Notes:

\*1,\*2 Nominal conditions (subject to JIS B8615-2)

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB/24°C WB (95°F DB/75°F WB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*3 Nominal heating conditions (subject to JIS B8615-2)

Indoor: 20 °CD.B. (68 °FD.B.), Outdoor: 7 °CD.B./6 °CW.B. (45 °FD.B./43 °FW.B.)

Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Eurovent registered

\*4 Cooling mode / Heating mode

\*5 External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).

Consult your dealer about the specification when setting External static pressure option.

\*Due to continuing improvement, above specification may be subject to change without notice.

# OPTIONAL PARTS FOR OUTDOOR UNITS

## For Y series

Description	Model	Remarks
Relay Box	PAC-PH01KTY-E	Relay box should be used together with Panel heater
Panel heater	PAC-PH01EHT-E	For S module
	PAC-PH02EHT-E	For L module
	PAC-PH03EHT-E	For XL Modele
Twinning kit	CMY-Y100VBK3	For PUHY-(E)P400~(E)P650YSNW-A
	CMY-Y200VBK2	For PUHY-(E)P700~(E)P900YSNW-A
	CMY-Y300VBK3	For PUHY-(E)P950~(E)P1350YSNW-A
Branch pipe (Joint)	CMY-Y102SS-G2	200 or below(Total capacity of indoor unit)
	CMY-Y102LS-G2	201-400(Total capacity of indoor unit)
	CMY-Y202S-G2	401-650(Total capacity of indoor unit)
	CMY-Y302S-G2	651-above(Total capacity of indoor unit)
Branch pipe (Header)	CMY-Y104-G	For 4 branches
	CMY-Y108-G	For 8 branches
	CMY-Y1010-G	For 10 branches
Fin Guard	PAC-FG01S-E	For side surfaces of S and L modules (a set of two pieces)
	PAC-FG02S-E	For side surfaces of XL modules (a set of two pieces)
	PAC-FG01B-E	For rear surface of S module
	PAC-FG02B-E	For rear surface of L module
	PAC-FG03B-E	For rear surface of XL module

## For R2 series

Description		Model	Remarks
Relay Box		PAC-PH01KTY-E	Relay box should be used together with Panel heater
Panel heater		PAC-PH01EHT-E	For S module
		PAC-PH02EHT-E	For L module
		PAC-PH03EHT-E	For XL Modele
Twinning kit		CMY-R100VBK4	For PURY-(E)P400~(E)P650YSNW-A
		CMY-R200VBK4	For PURY-(E)P700~(E)P1100YSNW-A
For BC controller	2-Branch Joint Pipe	CMY-Y102SS-G2	200 or below(Total capacity of indoor unit)
		CMY-Y102LS-G2	201-400(Total capacity of indoor unit)
	Joint and Reducer	CMY-R201S-G	350 or below(Total capacity of indoor unit)
		CMY-R202S-G	351-600(Total capacity of indoor unit)
		CMY-R203S-G	601-650(Total capacity of indoor unit)
		CMY-R204S-G	651-1000(Total capacity of indoor unit)
		CMY-R205S-G	1001 or above(Total capacity of indoor unit)
		CMY-R101S-G	For P200-P650 Outdoor unit
		CMY-R102S-G	For P700-P1100 Outdoor unit
	Reducer	CMY-R301S-G	For CMB-P104,106,108,1012,1016V-J (When the outdoor unit capacity is P200 to P300)
		CMY-R302S-G	For CMB-P108,1012,1016V-JA (When the outdoor unit capacity is P200 to P900)
		CMY-R303S-G	For CMB-P108,1012,1016V-JA and for use with sub BC controller
		CMY-R304S-G	For CMB-P1016V-KA(When the outdoor unit capacity is P200 to P1000)
		CMY-R305S-G	For CMB-P1016V-KA and for use with sub BC controller
	Branch pipe(Header)	CMY-R306S-G	For CMB-P104V-KB
		CMY-R160-J1	Joint for connecting to two nozzles
Fin Guard		PAC-FG01S-E*	For side surfaces of S and L modules (a set of two pieces)
		PAC-FG02S-E*	For side surfaces of XL modules (a set of two pieces)
		PAC-FG01B-E	For rear surface of S module
		PAC-FG02B-E	For rear surface of L module
		PAC-FG03B-E	For rear surface of XL module

Note : When installing on 38HP model, please refer to DATABOOK.





**for a greener tomorrow**

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

**⚠ Warning**

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
  - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
  - It may also be in violation of applicable laws.
  - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A.

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